Astronomisches Jahrbuch

für

1901.

Der Sammlung Berliner astronomischer Jahrbücher einhundert und sechsundzwanzigster Band.

11

Berliner

Astronomisches Jahrbuch

für

1 9 0 1

mit Angaben für die Oppositionen
der Planeten (1)—(436)

für

1899.

Herausgegeben

von dem

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J. Bauschinger.

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Inhalt.

Anhänge.

Berichtigungen.

Jahrbuch 1900.

Seite 73 18 U Mittlere Zeit lies: $5^h\ 17^m.3$ anstatt: $5^h\ 7^m.3$

» 143 Dec. 34 Log. Δ lies: 9.963895 anstatt: 9.953895

» 322 Br. 2777 Decl. Nov. 16 — Dec. 36

lies:	55″.1	54″.9	54″.1	52″.8	50″.8	48″.4
anstatt:	55 .2	55 .1	54 .4	53 .1	51 .2	48 .8

» 412 (208) Lacrimosa M lies: 226° 46′ 28″.5 anstatt: 224° 46′ 28″.5 (desgl. im Jahrbuch 1898 u. 1899).

Jahrbuch 1901.

Seite 228 8 Lyncis Decl. Sept. 27 — Dec. 36 lies: 45″.4 45″.2 45″.3 45″.7 46″.5 47″.6 48″.9 50″.5 52″.4 54″.5 56″.7

» 236 Gr. 1374 Decl. Juli 19 — Dec. 36 lies: 46″.1 43″.1 40″.2 37″.5 34″.9 32″.6 30″.6 28″.8 27″.4 26″.4 25″.8 25″.7 26″.1 26″.9 28″.1 29″.8 31″.9 34″.3

» 404 Die Oppositionsdaten für 403 [1895 BX]

	Oppos.	Gr.	AR.	Decl.	Δα	Δδ
lies:	März 1	11.6	$10^h\ 51^m.8$	−8° 40′	$0^m.8$	+6′
anstatt:	Febr. 25	12.0	10 35.0	−7 5	0.8	+5

» 483 $g' \cos G'$ lies: — 0.0811 sin 2 ☾ + 0.0269 sin (☾ — 35° 24′)
anstatt: — 0.0830 » + 0.0275 »

Vorwort.

Mit dem vorliegenden Jahrgang 1901 des Berliner Jahrbuchs sind in den Grundlagen eine Reihe durchgreifender Aenderungen eingeführt worden, die zwar in den »Erläuterungen« ausführlich angegeben sind, auf die jedoch auch an dieser Stelle in Kürze aufmerksam gemacht werden soll.

Nach den Beschlüssen der Pariser Conferenz vom Mai 1896 *(Conférence internationale des étoiles fondamentales. Procès-Verbaux. Paris 1896)* sind im Jahrbuch durchweg eingeführt:

die Praecessions-Gröfsen nach S. Newcomb *(Astr. Papers Vol. VIII. Part I)*,
die Nutations-Constante 9″.21,
die Aberrations-Constante 20″.47,
die Sonnen-Parallaxe 8″.80;

ferner sind in allen Ephemeriden der Sonne, der Planeten und der Fixsterne die kurzperiodischen, von der Mondlänge abhängigen Nutations-Glieder weggelassen; ausgenommen von dieser allgemeinen Regel sind nur die Ephemeriden der Polsterne, die von Tag zu Tag fortschreiten; in diesen ist wohl das allen Sternen gemeinsame Nutations-Glied $f' = -0''.1865 \sin 2☾ + 0''.0618 \sin(☾ - \Gamma')$ weggelassen, die übrigen mit der Tangente der Decl. multiplicirten Glieder sind jedoch beibehalten. Das Jahrbuch giebt übrigens die Mittel an die Hand, die weggelassenen Glieder nachträglich anzubringen, worüber die »Erläuterungen« einzusehen sind.

Am Fundamental-Katalog der Fixsterne sind keine Aenderungen vorgenommen worden, den angegebenen Eigenbewegungen liegt also nach wie vor die O. Struve'sche Praecessions-Constante zu Grunde. Im Anhang I. sind diejenigen provisorischen Correctionen der mittleren Oerter zusammengestellt, welche A. Auwers in A. N. Nr. 3508/09 angegeben hat. Die scheinbaren Oerter der Fixsterne sind mit obigen neuen Constanten gerechnet.

Für die Planeten sind folgende Tafeln benutzt worden:

Sonne: Tafeln von Newcomb,
Mercur: Tafeln von Newcomb,
Venus: Tafeln von Newcomb,
Mars: Tafeln von Le Verrier,
Jupiter: Tafeln von Hill,
Saturn: Tafeln von Hill,
Uranus: Tafeln von Newcomb,
Neptun: Tafeln von Newcomb.

Die neu erschienenen Mars-Tafeln von Newcomb konnten in diesem Jahrgang noch nicht benutzt werden, da sie zu spät in unsere Hände gelangten.

Die Schiefe der Ekliptik ist nach Newcomb angenommen.

Für den Halbmesser der Sonne ist die bisherige Constante (nach Auwers) beibehalten, für den Halbmesser des Mondes ist sowohl in der Ephemeride (S. 42–81) als bei der Berechnung der Finsternisse und Stern-Bedeckungen der von J. Peters ermittelte Werth benutzt (A. N. Nr. 3297).

Die Lage des Mond-Aequators ist nach J. Franz (A. N. Nr. 3241) angenommen.

Als Vergröfserungsfactor für den Erdschatten bei Mond-Finsternissen ist nach J. Hartmann $\frac{1}{50}$ angenommen worden.

Ferner sei noch auf folgende Punkte hingewiesen:

1) In der Sonnen-Ephemeride werden die AR. app. und Decl. app. für die mittleren Mittage gegeben, statt wie bisher für die wahren; die Interpolation für andere Sternwarten als Berlin, wird dadurch erleichtert.

2) An Stelle der früheren 5-tägigen Ephemeriden für drei weite Polsterne sind 1-tägige gesetzt worden, wodurch die lästige Anbringung der Mond-Glieder wegfällt.

3) Den Hülfstafeln sind eine Tafel zur Berechnung der Mondlibration, eine Tafel für die Bruchtheile des Jahres, eine Tafel für die Julianische Periode und eine Tafel mit den Kreutz'schen Hülfsgröfsen zur Berechnung der Praecession (diese letzteren bereits seit dem Jahrgang 1899) hinzugefügt worden

Zeit- und Festrechnung 1901.

Das Jahr 1901 entspricht dem
Jahr 6614 der Julianischen Periode und dem
Jahr 7409 — 7410 der Byzantinischen Aere.

	Gregorianischer oder Neuer Kalender.	Julianischer oder Alter Kalender.
Goldene Zahl	2	2
Epakten	X	XXII
Sonnencirkel	6	6
Römer Zinszahl	14	14
Sonntags-Buchstab	F	G
Septuagesima	Febr. 3	Jan. 28
Aschermittwoch	Febr. 20	Febr. 14
I. Quatember	Febr. 27	Febr. 21
Ostersonntag	April 7	April 1
Himmelfahrt	Mai 16	Mai 10
Pfingstsonntag	Mai 26	Mai 20
II. Quatember	Mai 29	Mai 23
III. Quatember	Sept. 18	Sept. 19
I. Advent	Dec. 1	Dec. 2
IV. Quatember	Dec. 18	Dec. 19

Kalender der Mohamedaner.

1318		
Schewwâl 1	1901	Jan. 22
Dsû 'l-kade 1	»	Febr. 20
Dsû 'l-hedsche 1	»	März 22
1319 (Schaltjahr)		
Moharrem 1	»	April 20
Safar 1	»	Mai 20
Rebî-el-awwel 1	»	Juni 18
Rebî-el-accher 1	»	Juli 18
Dschemâdi-el-awwel 1	»	Aug. 16
Dschemâdi-el-accher 1	»	Sept. 15
Redscheb 1	»	Oct. 14
Schabân 1	»	Nov. 13
Ramadân 1	»	Dec. 12
Schewwâl 1	1902	Jan. 11

Kalender der Juden.

5661	Tebet	10	Fasten. Belagerung Jerusalems . .	1901	Jan.	1
	Schebat	1	. . . .	»		21
	Adar	1	. . . .	»	Febr.	20
		13	Fasten-Esther	»	März	4
		14	Purim	»		5
		15	Schuschan-Purim	»		6
	Nisan	1	. . . .	»		21
		15	Passah-Anfang*	»	April	4
		16	Zweites Fest*	»		5
		21	Siebentes Fest*	»		10
		22	Achtes Fest*	»		11
	Ijar	1	. . . .	»		20
		18	Lag-B'omer	»	Mai	7
	Sivan	1	. . . .	»		19
		6	Wochenfest*	»		24
		7	Zweites Fest*	»		25
	Thamuz	1	. . . .	»	Juni	18
		17	Fasten. Tempel-Eroberung . . .	»	Juli	4
	Ab	1	. . . .	»		17
		9	Fasten. Tempel-Verbrennung . .	»		25
	Elul	1	. . . .	»	Aug.	16
5662 { Abgekürztes Schaltjahr						
	Tischri	1	Neujahrsfest*	»	Sept.	14
		2	Zweites Fest*	»		15
		3	Fasten-Gedaljah	»		16
		10	Versöhnungsfest*	»		23
		15	Laubhüttenfest*	»		28
		16	Zweites Fest*	»		29
		21	Palmenfest	»	Oct.	4
		22	Versammlung oder Laubhütten-Ende*	»		5
		23	Gesetzesfreude*	»		6
	Marcheschwan	1	. . . .	»		14
	Kislev	1	. . . .	»	Nov.	12
		25	Tempelweihe	»	Dec.	6
	Tebet	1	. . . .	»		11
		10	Fasten. Belagerung Jerusalems . .	»		20
	Schebat	1	. . . .	1902	Jan.	9

Die mit * bezeichneten Festtage werden streng gefeiert.

1901		Schiefe der Ekliptik mittlere		Schiefe der Ekliptik scheinbare	Praecession in Länge	Nutation in Länge	Aberration der Sonne	Parallaxe der Sonne
		23°						
		′ ″		′ ″	″	″	″	″
Jan.	0	27 7.79		27 2.68	− 0.08	+15.49	20.81	8.95
	10	7.78		2.69	+ 1.29	15.83	20.81	8.95
	20	7.77		2.75	2.67	16.07	20.79	8.94
	30	7.76		2.84	4.05	16.17	20.77	8.93
Febr.	9	7.74		2.95	5.42	16.11	20.74	8.92
	19	27 7.73		27 3.05	+ 6.80	+15.89	20.70	8.90
März	1	7.72		3.12	8.17	15.53	20.65	8.88
	11	7.71		3.13	9.55	15.07	20.59	8.86
	21	7.69		3.07	10.93	14.55	20.53	8.83
	31	7.68		2.96	12.30	14.03	20.48	8.81
April	10	27 7.67		27 2.78	+13.68	+13.56	20.42	8.78
	20	7.65		2.56	15.05	13.18	20.36	8.76
	30	7.64		2.30	16.43	12.93	20.31	8.73
Mai	10	7.63		2.03	17.81	12.81	20.26	8.71
	20	7.61		1.77	19.18	12.82	20.22	8.69
	30	27 7.60		27 1.54	+20.56	+12.96	20.18	8.68
Juni	9	7.59		1.36	21.93	13.19	20.15	8.67
	19	7.57		1.24	23.31	13.48	20.14	8.67
	29	7.56		1.17	24.69	13.78	20.13	8.66
Juli	9	7.55		1.16	26.06	14.04	20.13	8.67
	19	27 7.54		27 1.21	+27.44	+14.22	20.14	8.67
	29	7.52		1.29	28.81	14.30	20.16	8.67
Aug.	8	7.51		1.39	30.19	14.24	20.18	8.68
	18	7.50		1.49	31.57	14.04	20.22	8.70
	28	7.48		1.58	32.94	13.71	20.26	8.71
Sept.	7	27 7.47		27 1.62	+34.32	+13.27	20.31	8.73
	17	7.46		1.61	35.69	12.75	20.37	8.76
	27	7.45		1.54	37.07	12.20	20.42	8.78
Oct.	7	7.43		1.41	38.45	11.68	20.48	8.81
	17	7.42		1.22	39.82	11.22	20.54	8.83
	27	27 7.41		27 0.98	+41.20	+10.87	20.60	8.86
Nov.	6	7.39		0.72	42.57	10.67	20.65	8.88
	16	7.38		0.46	43.95	10.62	20.70	8.90
	26	7.37		0.21	45.33	10.72	20.74	8.92
Dec.	6	7.35		27 0.01	46.70	10.96	20.77	8.93
	16	27 7.34		26 59.86	+48.08	+11.28	20.80	8.94
	26	7.33		59.78	49.45	11.63	20.81	8.95
	36	7.31		59.78	50.83	11.96	20.81	8.95

Mittlere Schiefe der Ekliptik für 1900.0 = 23° 27′ 8″.26.

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Jan.	1	Di	+ 3 32.94	18 45 10.19	4 24.84	—23 2 40.4	4 59.6	141.86	16 16.03
	2	Mi	4 1.23	18 49 35.03	4 24.49	22 57 40.8	5 27.0	141.77	16 16.03
	3	Do	4 29.16	18 53 59.52	4 24.10	22 52 13.8	5 54.2	141.67	16 16.03
	4	Fr	4 56.70	18 58 23.62	4 23.70	22 46 19.6	6 21.4	141.57	16 16.03
	5	Sa	5 23.84	19 2 47.32	4 23.27	22 39 58.2	6 48.3	141.46	16 16.01
	6	So	+ 5 50.56	19 7 10.59	4 22.82	—22 33 9.9	7 15.1	141.34	16 15.99
	7	Mo	6 16.82	19 11 33.41	4 22.35	22 25 54.8	7 41.7	141.21	16 15.97
	8	Di	6 42.61	19 15 55.76	4 21.85	22 18 13.1	8 8.0	141.07	16 15.94
	9	Mi	7 7.90	19 20 17.61	4 21.32	22 10 5.1	8 34.0	140.93	16 15.90
	10	Do	7 32.67	19 24 38.93	4 20.78	22 1 31.1	8 59.9	140.78	16 15.85
	11	Fr	+ 7 56.89	19 28 59.71	4 20.21	—21 52 31.2	9 25.5	140.62	16 15.80
	12	Sa	8 20.54	19 33 19.92	4 19.62	21 43 5.7	9 50.9	140.46	16 15.75
	13	So	8 43.60	19 37 39.54	4 19.01	21 33 14.8	10 15.9	140.29	16 15.69
	14	Mo	9 6.06	19 41 58.55	4 18.38	21 22 58.9	10 40.6	140.12	16 15.62
	15	Di	9 27.88	19 46 16.93	4 17.73	21 12 18.3	11 5.1	139.94	16 15.55
	16	Mi	+ 9 49.05	19 50 34.66	4 17.05	—21 1 13.2	11 29.3	139.75	16 15.47
	17	Do	10 9.55	19 54 51.71	4 16.36	20 49 43.9	11 53.0	139.56	16 15.39
	18	Fr	10 29.35	19 59 8.07	4 15.66	20 37 50.9	12 16.5	139.36	16 15.31
	19	Sa	10 48.45	20 3 23.73	4 14.92	20 25 34.4	12 39.7	139.16	16 15.23
	20	So	11 6.82	20 7 38.65	4 14.17	20 12 54.7	13 2.4	138.96	16 15.14
	21	Mo	+11 24.44	20 11 52.82	4 13.41	—19 59 52.3	13 24.7	138.75	16 15.04
	22	Di	11 41.29	20 16 6.23	4 12.63	19 46 27.6	13 46.7	138.54	16 14.95
	23	Mi	11 57.36	20 20 18.86	4 11.83	19 32 40.9	14 8.4	138.33	16 14.85
	24	Do	12 12.64	20 24 30.69	4 11.03	19 18 32.5	14 29.6	138.11	16 14.74
	25	Fr	12 27.11	20 28 41.72	4 10.21	19 4 2.9	14 50.5	137.89	16 14.64
	26	Sa	+12 40.76	20 32 51.93	4 9.39	—18 49 12.4	15 11.0	137.67	16 14.53
	27	So	12 53.59	20 37 1.32	4 8.55	18 34 1.4	15 31.0	137.45	16 14.41
	28	Mo	13 5.59	20 41 9.87	4 7.71	18 18 30.4	15 50.7	137.22	16 14.29
	29	Di	13 16.75	20 45 17.58	4 6.88	18 2 39.7	16 10.0	137.00	16 14.17
	30	Mi	13 27.07	20 49 24.46	4 6.05	17 46 29.7	16 29.0	136.77	16 14.04
	31	Do	+13 36.55	20 53 30.51	4 5.20	—17 30 0.7	16 47.5	136.54	16 13.90
Febr.	1	Fr	13 45.21	20 57 35.71	4 4.38	17 13 13.2	17 5.7	136.31	16 13.76
	2	Sa	13 53.04	21 1 40.09	4 3.56	16 56 7.5	17 23.4	136.08	16 13.62
	3	So	14 0.04	21 5 43.65	4 2.73	16 38 44.1	17 40.9	135.85	16 13.47
	4	Mo	14 6.22	21 9 46.38	4 1.92	16 21 3.2	17 57.8	135.62	16 13.31
	5	Di	+14 11.58	21 13 48.30	4 1.11	—16 3 5.4	18 14.4	135.39	16 13.15
	6	Mi	14 16.13	21 17 49.41	4 0.32	15 44 51.0	18 30.6	135.16	16 12.98
	7	Do	14 19.89	21 21 49.73	3 59.52	15 26 20.4	18 46.5	134.94	16 12.81
	8	Fr	14 22.86	21 25 49.25	3 58.74	15 7 33.9	19 1.8	134.71	16 12.63
	9	Sa	14 25.04	21 29 47.99		14 48 32.1		134.48	16 12.45

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Aequ. 1901.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 $d\lambda$	$d\varepsilon$
		h m s	° ′ ″	′ ″	″				
Jan. 1	1	18 41 37.25	280 22 56.43	61 8.77	—0.07	9.9926405	25 —	—15	—2
2	2	18 45 33.80	281 24 5.20	61 8.59	—0.20	9.9926380	3	—10	—6
3	3	18 49 30.36	282 25 13.79	61 8.43	—0.33	9.9926383	32	— 2	—8
4	4	18 53 26.92	283 26 22.22	61 8.30	—0.44	9.9926415	61	+ 8	—9
5	5	18 57 23.48	284 27 30.52	61 8.21	—0.53	9.9926476	90	+17	—7
6	6	19 1 20.03	285 28 38.73	61 8.14	—0.60	9.9926566	118	+23	—5
7	7	19 5 16.59	286 29 46.87	61 8.09	—0.65	9.9926684	146	+26	—1
8	8	19 9 13.15	287 30 54.96	61 8.04	—0.68	9.9926830	173	+24	+3
9	9	19 13 9.71	288 32 3.00	61 7.97	—0.67	9.9927003	199	+18	+7
10	10	19 17 6.26	289 33 10.97	61 7.89	—0.63	9.9927202	223	+ 9	+8
11	11	19 21 2.82	290 34 18.86	61 7.80	—0.57	9.9927425	247	— 2	+8
12	12	19 24 59.38	291 35 26.66	61 7.66	—0.48	9.9927672	270	—12	+7
13	13	19 28 55.94	292 36 34.32	61 7.50	—0.38	9.9927942	292	—20	+4
14	14	19 32 52.49	293 37 41.82	61 7.30	—0.26	9.9928234	312	—24	0
15	15	19 36 49.05	294 38 49.12	61 7.03	—0.12	9.9928546	331	—23	—4
16	16	19 40 45.61	295 39 56.15	61 6.71	+0.02	9.9928877	350	—18	—7
17	17	19 44 42.16	296 41 2.86	61 6.31	+0.15	9.9929227	367	—11	—9
18	18	19 48 38.72	297 42 9.17	61 5.84	+0.27	9.9929594	383	— 2	—9
19	19	19 52 35.28	298 43 15.01	61 5.27	+0.37	9.9929977	399	+ 6	—7
20	20	19 56 31.83	299 44 20.28	61 4.58	+0.46	9.9930376	414	+12	—4
21	21	20 0 28.39	300 45 24.86	61 3.79	+0.52	9.9930790	429	+14	0
22	22	20 4 24.94	301 46 28.65	61 2.91	+0.54	9.9931219	444	+12	+4
23	23	20 8 21.50	302 47 31.56	61 1.91	+0.53	9.9931663	459	+ 8	+7
24	24	20 12 18.06	303 48 33.47	61 0.82	+0.50	9.9932122	476	+ 1	+9
25	25	20 16 14.61	304 49 34.29	60 59.68	+0.43	9.9932598	495	— 7	+9
26	26	20 20 11.17	305 50 33.97	60 58.49	+0.34	9.9933093	513	—13	+7
27	27	20 24 7.72	306 51 32.46	60 57.23	+0.23	9.9933606	533	—17	+3
28	28	20 28 4.28	307 52 29.69	60 55.95	+0.11	9.9934139	555	—16	—1
29	29	20 32 0.84	308 53 25.64	60 54.68	—0.02	9.9934694	578	—12	—5
30	30	20 35 57.39	309 54 20.32	60 53.41	—0.15	9.9935272	601	— 5	—7
31	31	20 39 53.95	310 55 13.73	60 52.16	—0.26	9.9935873	626	+ 5	—9
Febr. 1	32	20 43 50.50	311 56 5.89	60 50.93	—0.36	9.9936499	650	+15	—8
2	33	20 47 47.06	312 56 56.82	60 49.73	—0.44	9.9937149	675	+22	—6
3	34	20 51 43.61	313 57 46.55	60 48.57	—0.49	9.9937824	700	+26	—2
4	35	20 55 40.17	314 58 35.12	60 47.42	—0.51	9.9938524	725	+25	+2
5	36	20 59 36.72	315 59 22.54	60 46.30	—0.51	9.9939249	748	+21	+6
6	37	21 3 33.28	317 0 8.84	60 45.19	—0.49	9.9939997	771	+13	+8
7	38	21 7 29.83	318 0 54.03	60 44.10	—0.43	9.9940768	792	+ 3	+9
8	39	21 11 26.39	319 1 38.13	60 43.00	—0.35	9.9941560	813	— 8	+8
9	40	21 15 22.94	320 2 21.13		—0.25	9.9942373		—17	+6

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Febr. 8	Fr	+14 22.86	21 25 49.25	3 58.74	—15 7 33.9	19 1.8	134.71	16 12.63
9	Sa	14 25.04	21 29 47.99	3 57.96	14 48 32.1	19 16.8	134.48	16 12.45
10	So	14 26.45	21 33 45.95	3 57.20	14 29 15.3	19 31.4	134.26	16 12.26
11	Mo	14 27.10	21 37 43.15	3 56.44	14 9 43.9	19 45.5	134.04	16 12.07
12	Di	14 26.99	21 41 39.59	3 55.69	13 49 58.4	19 59.2	133.82	16 11.87
13	Mi	+14 26.13	21 45 35.28	3 54.96	—13 29 59.2	20 12.6	133.60	16 11.68
14	Do	14 24.53	21 49 30.24	3 54.23	13 9 46.6	20 25.4	133.38	16 11.48
15	Fr	14 22.20	21 53 24.47	3 53.51	12 49 21.2	20 37.9	133.17	16 11.27
16	Sa	14 19.16	21 57 17.98	3 52.81	12 28 43.3	20 49.9	132.96	16 11.07
17	So	14 15.41	22 1 10.79	3 52.10	12 7 53.4	21 1.5	132.76	16 10.86
18	Mo	+14 10.96	22 5 2.89	3 51.41	—11 46 51.9	21 12.7	132.56	16 10.65
19	Di	14 5.82	22 8 54.30	3 50.74	11 25 39.2	21 23.4	132.36	16 10.43
20	Mi	14 0.00	22 12 45.04	3 50.06	11 4 15.8	21 33.6	132.17	16 10.22
21	Do	13 53.51	22 16 35.10	3 49.39	10 42 42.2	21 43.5	131.98	16 10.00
22	Fr	13 46.35	22 20 24.49	3 48.75	10 20 58.7	21 52.9	131.79	16 9.79
23	Sa	+13 38.54	22 24 13.24	3 48.11	— 9 59 5.8	22 1.9	131.61	16 9.57
24	So	13 30.10	22 28 1.35	3 47.48	9 37 3.9	22 10.4	131.43	16 9.35
25	Mo	13 21.03	22 31 48.83	3 46.88	9 14 53.5	22 18.7	131.26	16 9.12
26	Di	13 11.35	22 35 35.71	3 46.29	8 52 34.8	22 26.4	131.09	16 8.90
27	Mi	13 1.09	22 39 22.00	3 45.72	8 30 8.4	22 33.8	130.93	16 8.67
28	Do	+12 50.26	22 43 7.72	3 45.17	— 8 7 34.6	22 40.8	130.77	16 8.43
März 1	Fr	12 38.88	22 46 52.89	3 44.63	7 44 53.8	22 47.5	130.62	16 8.20
2	Sa	12 26.96	22 50 37.52	3 44.13	7 22 6.3	22 53.7	130.47	16 7.96
3	So	12 14.53	22 54 21.65	3 43.64	6 59 12.6	22 59.7	130.33	16 7.72
4	Mo	12 1.62	22 58 5.29	3 43.18	6 36 12.9	23 5.1	130.19	16 7.47
5	Di	+11 48.24	23 1 48.47	3 42.73	— 6 13 7.8	23 10.3	130.06	16 7.22
6	Mi	11 34.42	23 5 31.20	3 42.31	5 49 57.5	23 15.0	129.93	16 6.97
7	Do	11 20.18	23 9 13.51	3 41.91	5 26 42.5	23 19.5	129.81	16 6.71
8	Fr	11 5.54	23 12 55.42	3 41.54	5 3 23.0	23 23.5	129.70	16 6.45
9	Sa	10 50.53	23 16 36.96	3 41.19	4 39 59.5	23 27.1	129.59	16 6.19
10	So	+10 35.16	23 20 18.15	3 40.85	— 4 16 32.4	23 30.5	129.48	16 5.93
11	Mo	10 19.46	23 23 59.00	3 40.54	3 53 1.9	23 33.4	129.38	16 5.66
12	Di	10 3.45	23 27 39.54	3 40.25	3 29 28.5	23 35.9	129.29	16 5.39
13	Mi	9 47.16	23 31 19.79	3 39.99	3 5 52.6	23 38.1	129.20	16 5.12
14	Do	9 30.59	23 34 59.78	3 39.74	2 42 14.5	23 39.8	129.12	16 4.85
15	Fr	+ 9 13.77	23 38 39.52	3 39.52	— 2 18 34.7	23 41.3	129.04	16 4.58
16	Sa	8 56.74	23 42 19.04	3 39.31	1 54 53.4	23 42.4	128.97	16 4.31
17	So	8 39.50	23 45 58.35	3 39.12	1 31 11.0	23 43.0	128.91	16 4.03
18	Mo	8 22.06	23 49 37.47	3 38.94	1 7 28.0	23 43.2	128.85	16 3.76
19	Di	8 4.45	23 53 16.41		0 43 44.8		128.80	16 3.48

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Aequ. 1901.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
		h m s	° ′ ″	′ ″	″				
Febr. 8	39	21 11 26.39	319 1 38.13	60 43.00	−0.35	9.9941560	813	−8	+8
9	40	21 15 22.94	320 2 21.13	60 41.89	−0.25	9.9942373	833	−17	+6
10	41	21 19 19.50	321 3 3.02	60 40.78	−0.13	9.9943206	851	−22	+2
11	42	21 23 16.05	322 3 43.80	60 39.65	0.00	9.9944057	868	−23	−2
12	43	21 27 12.60	323 4 23.45	60 38.51	+0.13	9.9944925	884	−20	−6
13	44	21 31 9.16	324 5 1.96	60 37.32	+0.25	9.9945809	899	−13	−8
14	45	21 35 5.71	325 5 39.28	60 36.10	+0.36	9.9946708	911	−5	−9
15	46	21 39 2.27	326 6 15.38	60 34.82	+0.47	9.9947619	923	+3	−7
16	47	21 42 58.82	327 6 50.20	60 33.46	+0.56	9.9948542	933	+10	−5
17	48	21 46 55.37	328 7 23.66	60 32.02	+0.62	9.9949475	942	+13	−1
18	49	21 50 51.93	329 7 55.68	60 30.49	+0.65	9.9950417	950	+13	+3
19	50	21 54 48.48	330 8 26.17	60 28.87	+0.65	9.9951367	958	+9	+7
20	51	21 58 45.04	331 8 55.04	60 27.14	+0.61	9.9952325	965	+2	+9
21	52	22 2 41.59	332 9 22.18	60 25.31	+0.55	9.9953290	973	−6	+9
22	53	22 6 38.14	333 9 47.49	60 23.40	+0.46	9.9954263	983	−12	+7
23	54	22 10 34.70	334 10 10.89	60 21.44	+0.35	9.9955246	992	−17	+4
24	55	22 14 31.25	335 10 32.33	60 19.44	+0.22	9.9956238	1002	−18	0
25	56	22 18 27.80	336 10 51.77	60 17.38	+0.09	9.9957240	1015	−14	−4
26	57	22 22 24.35	337 11 9.15	60 15.31	−0.04	9.9958255	1028	−7	−7
27	58	22 26 20.91	338 11 24.46	60 13.27	−0.16	9.9959283	1042	+2	−9
28	59	22 30 17.46	339 11 37.73	60 11.26	−0.25	9.9960325	1057	+11	−9
März 1	60	22 34 14.01	340 11 48.99	60 9.25	−0.33	9.9961382	1072	+20	−7
2	61	22 38 10.57	341 11 58.24	60 7.27	−0.39	9.9962454	1088	+25	−4
3	62	22 42 7.12	342 12 5.51	60 5.33	−0.41	9.9963542	1103	+26	0
4	63	22 46 3.67	343 12 10.84	60 3.44	−0.41	9.9964645	1119	+23	+4
5	64	22 50 0.22	344 12 14.28	60 1.58	−0.39	9.9965764	1134	+16	+7
6	65	22 53 56.78	345 12 15.86	59 59.73	−0.33	9.9966898	1149	+6	+9
7	66	22 57 53.33	346 12 15.59	59 57.94	−0.25	9.9968047	1163	−5	+9
8	67	23 1 49.88	347 12 13.53	59 56.19	−0.15	9.9969210	1176	−14	+7
9	68	23 5 46.43	348 12 9.72	59 54.45	−0.04	9.9970386	1188	−20	+3
10	69	23 9 42.99	349 12 4.17	59 52.73	+0.08	9.9971574	1199	−23	−1
11	70	23 13 39.54	350 11 56.90	59 51.01	+0.21	9.9972773	1208	−21	−5
12	71	23 17 36.09	351 11 47.91	59 49.31	+0.34	9.9973981	1217	−16	−7
13	72	23 21 32.64	352 11 37.22	59 47.63	+0.47	9.9975198	1224	−8	−9
14	73	23 25 29.19	353 11 24.85	59 45.93	+0.58	9.9976422	1229	+1	−8
15	74	23 29 25.75	354 11 10.78	59 44.22	+0.66	9.9977651	1233	+8	−6
16	75	23 33 22.30	355 10 55.00	59 42.48	+0.72	9.9978884	1235	+13	−2
17	76	23 37 18.85	356 10 37.48	59 40.68	+0.75	9.9980119	1235	+14	+2
18	77	23 41 15.40	357 10 18.16	59 38.82	+0.76	9.9981354	1234	+10	+5
19	78	23 45 11.96	358 9 56.98		+0.73	9.9982588		+5	+8

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
März 18	Mo	+8 22.06	23 49 37.47	3 38.94	— 1 7 28.0	23 43.2	128.85	16 3.76
19	Di	8 4.45	23 53 16.41	3 38.79	0 43 44.8	23 43.1	128.80	16 3.48
20	Mi	7 46.69	23 56 55.20	3 38.65	— 0 20 1.7	23 42.6	128.76	16 3.21
21	Do	7 28.79	0 0 33.85	3 38.52	+ 0 3 40.9	23 41.7	128.72	16 2.94
22	Fr	7 10.76	0 4 12.37	3 38.42	0 27 22.6	23 40.3	128.68	16 2.67
23	Sa	+6 52.62	0 7 50.79	3 38.32	+ 0 51 2.9	23 38.7	128.66	16 2.39
24	So	6 34.39	0 11 29.11	3 38.24	1 14 41.6	23 36.6	128.64	16 2.12
25	Mo	6 16.08	0 15 7.35	3 38.18	1 38 18.2	23 34.2	128.62	16 1.85
26	Di	5 57.71	0 18 45.53	3 38.15	2 1 52.4	23 31.5	128.62	16 1.58
27	Mi	5 39.30	0 22 23.68	3 38.13	2 25 23.9	23 28.4	128.61	16 1.31
28	Do	+5 20.88	0 26 1.81	3 38.14	+ 2 48 52.3	23 24.9	128.62	16 1.04
29	Fr	5 2.46	0 29 39.95	3 38.16	3 12 17.2	23 21.2	128.63	16 0.77
30	Sa	4 44.07	0 33 18.11	3 38.20	3 35 38.4	23 17.0	128.64	16 0.50
31	So	4 25.73	0 36 56.31	3 38.27	3 58 55.4	23 12.6	128.66	16 0.23
April 1	Mo	4 7.45	0 40 34.58	3 38.36	4 22 8.0	23 7.8	128.69	15 59.95
2	Di	+3 49.25	0 44 12.94	3 38.47	+ 4 45 15.8	23 2.7	128.72	15 59.68
3	Mi	3 31.17	0 47 51.41	3 38.61	5 8 18.5	22 57.3	128.76	15 59.40
4	Do	3 13.23	0 51 30.02	3 38.77	5 31 15.8	22 51.5	128.80	15 59.12
5	Fr	2 55.44	0 55 8.79	3 38.94	5 54 7.3	22 45.4	128.85	15 58.85
6	Sa	2 37.83	0 58 47.73	3 39.14	6 16 52.7	22 39.0	128.91	15 58.57
7	So	+2 20.42	1 2 26.87	3 39.37	+ 6 39 31.7	22 32.2	128.97	15 58.30
8	Mo	2 3.24	1 6 6.24	3 39.61	7 2 3.9	22 25.2	129.03	15 58.02
9	Di	1 46.29	1 9 45.85	3 39.86	7 24 29.1	22 17.7	129.10	15 57.74
10	Mi	1 29.60	1 13 25.71	3 40.14	7 46 46.8	22 9.9	129.17	15 57.46
11	Do	1 13.19	1 17 5.85	3 40.45	8 8 56.7	22 1.9	129.25	15 57.18
12	Fr	+0 57.08	1 20 46.30	3 40.76	+ 8 30 58.6	21 53.4	129.34	15 56.91
13	Sa	0 41.29	1 24 27.06	3 41.09	8 52 52.0	21 44.7	129.43	15 56.63
14	So	0 25.84	1 28 8.15	3 41.44	9 14 36.7	21 35.5	129.52	15 56.35
15	Mo	+0 10.73	1 31 49.59	3 41.81	9 36 12.2	21 26.0	129.62	15 56.08
16	Di	—0 4.02	1 35 31.40	3 42.18	9 57 38.2	21 16.2	129.72	15 55.81
17	Mi	—0 18.40	1 39 13.58	3 42.56	+10 18 54.4	21 6.0	129.83	15 55.54
18	Do	0 32.39	1 42 56.14	3 42.95	10 40 0.4	20 55.5	129.94	15 55.28
19	Fr	0 45.99	1 46 39.09	3 43.35	11 0 55.9	20 44.6	130.06	15 55.02
20	Sa	0 59.19	1 50 22.44	3 43.77	11 21 40.5	20 33.3	130.18	15 54.76
21	So	1 11.98	1 54 6.21	3 44.19	11 42 13.8	20 21.8	130.31	15 54.50
22	Mo	—1 24.35	1 57 50.40	3 44.61	+12 2 35.6	20 9.8	130.44	15 54.25
23	Di	1 36.29	2 1 35.01	3 45.05	12 22 45.4	19 57.5	130.57	15 54.00
24	Mi	1 47.79	2 5 20.06	3 45.50	12 42 42.9	19 45.0	130.70	15 53.75
25	Do	1 58.84	2 9 5.56	3 45.96	13 2 27.9	19 32.0	130.84	15 53.50
26	Fr	2 9.44	2 12 51.52		13 21 59.9		130.98	15 53.26

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit h m s	Mittleres Aequ. 1901.0 Länge ° ′ ″	Diff. ′ ″	Breite ″	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 $d\lambda$	$d\varepsilon$
März 18	77	23 41 15.40	357 10 18.16	59 38.82	+0.76	9.9981354	1234	+10	+5
19	78	23 45 11.96	358 9 56.98	59 36.88	+0.73	9.9982588	1232	+ 5	+8
20	79	23 49 8.51	359 9 33.86	59 34.85	+0.67	9.9983820	1229	− 3	+9
21	80	23 53 5.06	0 9 8.71	59 32.75	+0.59	9.9985049	1227	−10	+8
22	81	23 57 1.61	1 8 41.46	59 30.57	+0.47	9.9986276	1224	−16	+6
23	82	0 0 58.16	2 8 12.03	59 28.31	+0.34	9.9987500	1221	−18	+2
24	83	0 4 54.72	3 7 40.34	59 25.98	+0.20	9.9988721	1220	−16	−2
25	84	0 8 51.27	4 7 6.32	59 23.64	+0.06	9.9989941	1220	−10	−6
26	85	0 12 47.82	5 6 29.96	59 21.30	−0.06	9.9991161	1221	− 2	−8
27	86	0 16 44.37	6 5 51.26	59 18.96	−0.16	9.9992382	1223	+ 8	−9
28	87	0 20 40.93	7 5 10.22	59 16.63	−0.25	9.9993605	1226	+17	−7
29	88	0 24 37.48	8 4 26.85	59 14.32	−0.31	9.9994831	1229	+24	−5
30	89	0 28 34.03	9 3 41.17	59 12.05	−0.34	9.9996060	1233	+26	−1
31	90	0 32 30.58	10 2 53.22	59 9.82	−0.34	9.9997293	1238	+25	+3
April 1	91	0 36 27.13	11 2 3.04	59 7.65	−0.32	9.9998531	1242	+18	+7
2	92	0 40 23.69	12 1 10.69	59 5.54	−0.27	9.9999773	1247	+ 9	+9
3	93	0 44 20.24	13 0 16.23	59 3.47	−0.19	0.0001020	1250	− 1	+9
4	94	0 48 16.79	13 59 19.70	59 1.43	−0.09	0.0002270	1255	−11	+7
5	95	0 52 13.34	14 58 21.13	58 59.46	+0.02	0.0003525	1258	−18	+4
6	96	0 56 9.90	15 57 20.59	58 57.54	+0.14	0.0004783	1260	−22	0
7	97	1 0 6.45	16 56 18.13	58 55.67	+0.27	0.0006043	1262	−22	−4
8	98	1 4 3.00	17 55 13.80	58 53.85	+0.39	0.0007305	1264	−17	−7
9	99	1 7 59.55	18 54 7.65	58 52.06	+0.51	0.0008569	1263	−10	−9
10	100	1 11 56.11	19 52 59.71	58 50.31	+0.62	0.0009832	1261	− 2	−9
11	101	1 15 52.66	20 51 50.02	58 48.60	+0.72	0.0011093	1258	+ 6	−7
12	102	1 19 49.21	21 50 38.62	58 46.90	+0.78	0.0012351	1253	+11	−4
13	103	1 23 45.77	22 49 25.52	58 45.20	+0.81	0.0013604	1247	+14	0
14	104	1 27 42.32	23 48 10.72	58 43.50	+0.82	0.0014851	1239	+13	+4
15	105	1 31 38.87	24 46 54.22	58 41.78	+0.79	0.0016090	1229	+ 7	+7
16	106	1 35 35.42	25 45 36.00	58 40.00	+0.73	0.0017319	1217	− 1	+9
17	107	1 39 31.98	26 44 16.00	58 38.17	+0.64	0.0018536	1205	− 9	+8
18	108	1 43 28.53	27 42 54.17	58 36.27	+0.53	0.0019741	1192	−15	+6
19	109	1 47 25.08	28 41 30.44	58 34.30	+0.41	0.0020933	1178	−18	+3
20	110	1 51 21.64	29 40 4.74	58 32.25	+0.27	0.0022111	1164	−18	−1
21	111	1 55 18.19	30 38 36.99	58 30.15	+0.13	0.0023275	1151	−14	−5
22	112	1 59 14.74	31 37 7.14	58 28.03	0.00	0.0024426	1140	− 6	−7
23	113	2 3 11.30	32 35 35.17	58 25.90	−0.12	0.0025566	1129	+ 4	−9
24	114	2 7 7.85	33 34 1.07	58 23.76	−0.22	0.0026695	1118	+14	−8
25	115	2 11 4.40	34 32 24.83	58 21.62	−0.29	0.0027813	1110	+22	−6
26	116	2 15 0.96	35 30 46.45		−0.34	0.0028923		+26	−2

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
April 25	Do	—1 58.84	2 9 5.56	3 45.96	+13 2 27.9	19 32.0	130.84	15 53.50
26	Fr	2 9.44	2 12 51.52	3 46.43	13 21 59.9	19 18.8	130.98	15 53.26
27	Sa	2 19.57	2 16 37.95	3 46.91	13 41 18.7	19 5.3	131.13	15 53.02
28	So	2 29.21	2 20 24.86	3 47.40	14 0 24.0	18 51.4	131.27	15 52.78
29	Mo	2 38.36	2 24 12.26	3 47.91	14 19 15.4	18 37.3	131.42	15 52.54
30	Di	—2 47.00	2 28 0.17	3 48.43	+14 37 52.7	18 22.8	131.58	15 52.30
Mai 1	Mi	2 55.13	2 31 48.60	3 48.95	14 56 15.5	18 8.1	131.73	15 52.07
2	Do	3 2.73	2 35 37.55	3 49.49	15 14 23.6	17 52.9	131.89	15 51.83
3	Fr	3 9.79	2 39 27.04	3 50.04	15 32 16.5	17 37.6	132.04	15 51.60
4	Sa	3 16.31	2 43 17.08	3 50.59	15 49 54.1	17 21.9	132.20	15 51.37
5	So	—3 22.28	2 47 7.67	3 51.15	+16 7 16.0	17 5.9	132.36	15 51.14
6	Mo	3 27.68	2 50 58.82	3 51.73	16 24 21.9	16 49.6	132.52	15 50.91
7	Di	3 32.51	2 54 50.55	3 52.31	16 41 11.5	16 33.1	132.68	15 50.68
8	Mi	3 36.76	2 58 42.86	3 52.89	16 57 44.6	16 16.1	132.85	15 50.46
9	Do	3 40.42	3 2 35.75	3 53.48	17 14 0.7	15 59.0	133.01	15 50.23
10	Fr	—3 43.49	3 6 29.23	3 54.07	+17 29 59.7	15 41.5	133.17	15 50.01
11	Sa	3 45.97	3 10 23.30	3 54.67	17 45 41.2	15 23.7	133.34	15 49.79
12	So	3 47.86	3 14 17.97	3 55.27	18 1 4.9	15 5.6	133.50	15 49.58
13	Mo	3 49.15	3 18 13.24	3 55.86	18 16 10.5	14 47.3	133.66	15 49.37
14	Di	3 49.84	3 22 9.10	3 56.45	18 30 57.8	14 28.7	133.83	15 49.16
15	Mi	—3 49.95	3 26 5.55	3 57.04	+18 45 26.5	14 9.7	133.99	15 48.95
16	Do	3 49.47	3 30 2.59	3 57.61	18 59 36.2	13 50.4	134.15	15 48.75
17	Fr	3 48.41	3 34 0.20	3 58.19	19 13 26.6	13 30.9	134.31	15 48.55
18	Sa	3 46.78	3 37 58.39	3 58.74	19 26 57.5	13 11.2	134.47	15 48.36
19	So	3 44.59	3 41 57 13	3 59.29	19 40 8.7	12 51.1	134.63	15 48.18
20	Mo	—3 41.86	3 45 56.42	3 59.82	+19 52 59.8	12 30.8	134.78	15 47.99
21	Di	3 38.60	3 49 56.24	4 0.34	20 5 30.6	12 10.2	134.94	15 47.82
22	Mi	3 34.81	3 53 56.58	4 0.86	20 17 40.8	11 49.3	135.09	15 47.65
23	Do	3 30.51	3 57 57.44	4 1.37	20 29 30.1	11 28.3	135.24	15 47.48
24	Fr	3 25.70	4 1 58.81	4 1.86	20 40 58.4	11 7.0	135.39	15 47.31
25	Sa	—3 20.39	4 6 0.67	4 2.34	+20 52 5.4	10 45.4	135.53	15 47.15
26	So	3 14.60	4 10 3.01	4 2.81	21 2 50.8	10 23.7	135.67	15 47.00
27	Mo	3 8.34	4 14 5.82	4 3.28	21 13 14.5	10 1.7	135.81	15 46.84
28	Di	3 1.62	4 18 9.10	4 3.74	21 23 16.2	9 39.5	135.94	15 46.69
29	Mi	2 54.44	4 22 12.84	4 4.18	21 32 55.7	9 17.2	136.07	15 46.54
30	Do	—2 46.82	4 26 17.02	4 4.60	+21 42 12.9	8 54.6	136.20	15 46.40
31	Fr	2 38.77	4 30 21.62	4 5.02	21 51 7.5	8 31.9	136.32	15 46.26
Juni 1	Sa	2 30.31	4 34 26.64	4 5.43	21 59 39.4	8 8.9	136.44	15 46.12
2	So	2 21.44	4 38 32.07	4 5.82	22 7 48.3	7 45.8	136.55	15 45.98
3	Mo	2 12.17	4 42 37.89		22 15 34.1		136.66	15 45.85

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Aequ. 1901.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 $d\lambda$	$d\varepsilon$
			h m s	° ′ ″	′ ″	″				
April	25	115	2 11 4.40	34 32 24.83	58 21.62	−0.29	0.0027813	1110	+22	−6
	26	116	2 15 0.96	35 30 46.45	58 19.51	−0.34	0.0028923	1102	+26	−2
	27	117	2 18 57.51	36 29 5.96	58 17.44	−0.35	0.0030025	1094	+26	+2
	28	118	2 22 54.07	37 27 23.40	58 15.44	−0.33	0.0031119	1088	+22	+6
	29	119	2 26 50.62	38 25 38.84	58 13.47	−0.28	0.0032207	1082	+13	+8
	30	120	2 30 47.18	39 23 52.31	58 11.56	−0.22	0.0033289	1076	+ 3	+9
Mai	1	121	2 34 43.73	40 22 3.87	58 9.70	−0.13	0.0034365	1069	− 8	+8
	2	122	2 38 40.28	41 20 13.57	58 7.91	−0.02	0.0035434	1064	−16	+6
	3	123	2 42 36.84	42 18 21.48	58 6.20	+0.10	0.0036498	1059	−21	+2
	4	124	2 46 33.39	43 16 27.68	58 4.53	+0.23	0.0037557	1052	−22	−2
	5	125	2 50 29.95	44 14 32.21	58 2.95	+0.36	0.0038609	1046	−19	−6
	6	126	2 54 26.50	45 12 35.16	58 1.44	+0.48	0.0039655	1038	−13	−8
	7	127	2 58 23.06	46 10 36.60	57 59.97	+0.59	0.0040693	1030	− 4	−9
	8	128	3 2 19.61	47 8 36.57	57 58.58	+0.68	0.0041723	1022	+ 4	−7
	9	129	3 6 16.17	48 6 35.15	57 57.25	+0.75	0.0042745	1011	+10	−5
	10	130	3 10 12.72	49 4 32.40	57 55.98	+0.80	0.0043756	999	+13	−1
	11	131	3 14 9.28	50 2 28.38	57 54.75	+0.81	0.0044755	987	+13	+3
	12	132	3 18 5.83	51 0 23.13	57 53.52	+0.78	0.0045742	972	+ 8	+7
	13	133	3 22 2.39	51 58 16.65	57 52.31	+0.73	0.0046714	955	+ 2	+9
	14	134	3 25 58.94	52 56 8.96	57 51.08	+0.64	0.0047669	937	− 7	+9
	15	135	3 29 55.50	53 54 0.04	57 49.83	+0.53	0.0048606	917	−13	+7
	16	136	3 33 52.05	54 51 49.87	57 48.55	+0.40	0.0049523	896	−18	+4
	17	137	3 37 48.61	55 49 38.42	57 47.21	+0.26	0.0050419	875	−19	0
	18	138	3 41 45.16	56 47 25.63	57 45.82	+0.11	0.0051294	853	−15	−4
	19	139	3 45 41.72	57 45 11.45	57 44.36	−0.03	0.0052147	832	− 8	−7
	20	140	3 49 38.28	58 42 55.81	57 42.86	−0.16	0.0052979	810	+ 1	−9
	21	141	3 53 34.83	59 40 38.67	57 41.33	−0.27	0.0053789	790	+11	−9
	22	142	3 57 31.39	60 38 20.00	57 39.80	−0.35	0.0054579	771	+19	−7
	23	143	4 1 27.94	61 35 59.80	57 38.28	−0.41	0.0055350	753	+25	−4
	24	144	4 5 24.50	62 33 38.08	57 36.79	−0.43	0.0056103	735	+27	+1
	25	145	4 9 21.06	63 31 14.87	57 35.31	−0.42	0.0056838	719	+24	+4
	26	146	4 13 17.61	64 28 50.18	57 33.88	−0.38	0.0057557	704	+16	+7
	27	147	4 17 14.17	65 26 24.06	57 32.51	−0.32	0.0058261	689	+ 6	+9
	28	148	4 21 10.73	66 23 56.57	57 31.18	−0.24	0.0058950	675	− 4	+8
	29	149	4 25 7.28	67 21 27.75	57 29.91	−0.14	0.0059625	662	−13	+6
	30	150	4 29 3.84	68 18 57.66	57 28.71	−0.02	0.0060287	649	−19	+3
	31	151	4 33 0.39	69 16 26.37	57 27.57	+0.10	0.0060936	636	−22	−1
Juni	1	152	4 36 56.95	70 13 53.94	57 26.51	+0.23	0.0061572	624	−20	−5
	2	153	4 40 53.51	71 11 20.45	57 25.53	+0.36	0.0062196	611	−15	−8
	3	154	4 44 50.06	72 8 45.98		+0.47	0.0062807		− 7	−9

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juni 2	So	—2 21.44	4 38 32.07	4 5.82	+22 7 48.3	7 45.8	136.55	15 45.98
3	Mo	2 12.17	4 42 37.89	4 6.19	22 15 34.1	7 22.5	136.66	15 45.85
4	Di	2 2.53	4 46 44.08	4 6.57	22 22 56.6	6 59.1	136.76	15 45.72
5	Mi	1 52.53	4 50 50.65	4 6.92	22 29 55.7	6 35.5	136.86	15 45.59
6	Do	1 42.17	4 54 57.57	4 7.25	22 36 31.2	6 11.8	136.95	15 45.47
7	Fr	—1 31.47	4 59 4.82	4 7.57	+22 42 43.0	5 47.9	137.03	15 45.35
8	Sa	1 20.46	5 3 12.39	4 7.88	22 48 30.9	5 23.9	137.11	15 45.23
9	So	1 9.14	5 7 20.27	4 8.15	22 53 54.8	4 59.7	137.19	15 45.12
10	Mo	0 57.54	5 11 28.42	4 8.42	22 58 54.5	4 35.5	137.26	15 45.01
11	Di	0 45.68	5 15 36.84	4 8.66	23 3 30.0	4 11.2	137.32	15 44.90
12	Mi	—0 33.57	5 19 45.50	4 8.88	+23 7 41.2	3 46.8	137.38	15 44.80
13	Do	0 21.25	5 23 54.38	4 9.07	23 11 28.0	3 22.3	137.43	15 44.70
14	Fr	—0 8.74	5 28 3.45	4 9.23	23 14 50.3	2 57.7	137.47	15 44.61
15	Sa	+0 3.93	5 32 12.68	4 9.36	23 17 48.0	2 33.0	137.51	15 44.53
16	So	0 16.74	5 36 22.04	4 9.47	23 20 21.0	2 8.3	137.54	15 44.45
17	Mo	+0 29.66	5 40 31.51	4 9.56	+23 22 29.3	1 43.6	137.57	15 44.37
18	Di	0 42.65	5 44 41.07	4 9.60	23 24 12.9	1 18.9	137.59	15 44.30
19	Mi	0 55.70	5 48 50.67	4 9.63	23 25 31.8	0 54.1	137.60	15 44.24
20	Do	1 8.77	5 53 0.30	4 9.62	23 26 25.9	0 29.3	137.61	15 44.18
21	Fr	1 21.83	5 57 9.92	4 9.59	23 26 55.2	0 4.5	137.61	15 44.13
22	Sa	+1 34.86	6 1 19.51	4 9.54	+23 26 59.7	0 20.3	137.60	15 44.08
23	So	1 47.84	6 5 29.05	4 9.46	23 26 39.4	0 45.0	137.59	15 44.04
24	Mo	2 0.74	6 9 38.51	4 9.36	23 25 54.4	1 9.7	137.57	15 44.00
25	Di	2 13.54	6 13 47.87	4 9.23	23 24 44.7	1 34.4	137.55	15 43.97
26	Mi	2 26.22	6 17 57.10	4 9.09	23 23 10.3	1 59.1	137.52	15 43.94
27	Do	+2 38.75	6 22 6.19	4 8.92	+23 21 11.2	2 23.7	137.48	15 43.91
28	Fr	2 51.12	6 26 15.11	4 8.74	23 18 47.5	2 48.2	137.43	15 43.89
29	Sa	3 3.30	6 30 23.85	4 8.53	23 15 59.3	3 12.7	137.38	15 43.87
30	So	3 15.27	6 34 32.38	4 8.30	23 12 46.6	3 37.0	137.33	15 43.86
Juli 1	Mo	3 27.02	6 38 40.68	4 8.06	23 9 9.6	4 1.4	137.26	15 43.85
2	Di	+3 38.52	6 42 48.74	4 7.80	+23 5 8.2	4 25.6	137.19	15 43.84
3	Mi	3 49.76	6 46 56.54	4 7.52	23 0 42.6	4 49.7	137.12	15 43.83
4	Do	4 0.73	6 51 4.06	4 7.23	22 55 52.9	5 13.6	137.03	15 43.83
5	Fr	4 11.40	6 55 11.29	4 6.91	22 50 39.3	5 37.5	136.94	15 43.83
6	Sa	4 21.76	6 59 18.20	4 6.59	22 45 1.8	6 1.3	136.85	15 43.83
7	So	+4 31.79	7 3 24.79	4 6.25	+22 39 0.5	6 24.9	136.75	15 43.84
8	Mo	4 41.48	7 7 31.04	4 5.88	22 32 35.6	6 48.4	136.65	15 43.85
9	Di	4 50.80	7 11 36.92	4 5.51	22 25 47.2	7 11.7	136.54	15 43.87
10	Mi	4 59.75	7 15 42.43	4 5.11	22 18 35.5	7 34.8	136.42	15 43.89
11	Do	5 8.31	7 19 47.54		22 11 0.7		136.30	15 43.92

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Aequ. 1901.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 dλ	dε
		h m s	° ′ ″	′ ″	″				
Juni 2	153	4 40 53.51	71 11 20.45	57 25.53	+0.36	0.0062196	611	−15	−8
3	154	4 44 50.06	72 8 45.98	57 24.65	+0.47	0.0062807	598	−7	−9
4	155	4 48 46.62	73 6 10.63	57 23.84	+0.57	0.0063405	586	+2	−8
5	156	4 52 43.18	74 3 34.47	57 23.11	+0.64	0.0063991	572	+8	−6
6	157	4 56 39.74	75 0 57.58	57 22.44	+0.69	0.0064563	557	+13	−2
7	158	5 0 36.29	75 58 20.02	57 21.85	+0.72	0.0065120	542	+13	+2
8	159	5 4 32.85	76 55 41.87	57 21.35	+0.72	0.0065662	525	+10	+6
9	160	5 8 29.41	77 53 3.22	57 20.89	+0.68	0.0066187	507	+4	+8
10	161	5 12 25.96	78 50 24.11	57 20.46	+0.60	0.0066694	487	−4	+9
11	162	5 16 22.52	79 47 44.57	57 20.03	+0.50	0.0067181	465	−11	+8
12	163	5 20 19.08	80 45 4.60	57 19.61	+0.38	0.0067646	442	−17	+5
13	164	5 24 15.63	81 42 24.21	57 19.17	+0.24	0.0068088	418	−19	+1
14	165	5 28 12.19	82 39 43.38	57 18.72	+0.09	0.0068506	393	−17	−3
15	166	5 32 8.75	83 37 2.10	57 18.22	−0.05	0.0068899	367	−11	−6
16	167	5 36 5.30	84 34 20.32	57 17.68	−0.17	0.0069266	340	−2	−8
17	168	5 40 1.86	85 31 38.00	57 17.08	−0.28	0.0069606	314	+8	−9
18	169	5 43 58.42	86 28 55.08	57 16.45	−0.38	0.0069920	289	+18	−7
19	170	5 47 54.98	87 26 11.53	57 15.80	−0.45	0.0070209	264	+24	−5
20	171	5 51 51.53	88 23 27.33	57 15.14	−0.48	0.0070473	240	+27	−1
21	172	5 55 48.09	89 20 42.47	57 14.50	−0.49	0.0070713	217	+25	+3
22	173	5 59 44.65	90 17 56.97	57 13.87	−0.46	0.0070930	196	+19	+7
23	174	6 3 41.21	91 15 10.84	57 13.27	−0.41	0.0071126	175	+10	+9
24	175	6 7 37.76	92 12 24.11	57 12.71	−0.34	0.0071301	156	0	+9
25	176	6 11 34.32	93 9 36.82	57 12.19	−0.24	0.0071457	137	−10	+7
26	177	6 15 30.88	94 6 49.01	57 11.73	−0.12	0.0071594	120	−18	+4
27	178	6 19 27.44	95 4 0.74	57 11.32	0.00	0.0071714	102	−21	0
28	179	6 23 23.99	96 1 12.06	57 10.97	+0.12	0.0071816	86	−21	−4
29	180	6 27 20.55	96 58 23.03	57 10.69	+0.24	0.0071902	70	−17	−7
30	181	6 31 17.11	97 55 33.72	57 10.51	+0.35	0.0071972	55	−10	−9
Juli 1	182	6 35 13.66	98 52 44.23	57 10.41	+0.45	0.0072027	40	−1	−9
2	183	6 39 10.22	99 49 54.64	57 10.39	+0.53	0.0072067	26	+7	−7
3	184	6 43 6.78	100 47 5.03	57 10.46	+0.58	0.0072093	11	+12	−3
4	185	6 47 3.33	101 44 15.49	57 10.63	+0.60	0.0072104	4	+14	+1
5	186	6 50 59.89	102 41 26.12	57 10.88	+0.60	0.0072100	20	+12	+5
6	187	6 54 56.45	103 38 37.00	57 11.21	+0.58	0.0072080	37	+6	+7
7	188	6 58 53.00	104 35 48.21	57 11.60	+0.52	0.0072043	56	−2	+9
8	189	7 2 49.56	105 32 59.81	57 12.06	+0.42	0.0071987	75	−10	+8
9	190	7 6 46.12	106 30 11.87	57 12.55	+0.30	0.0071912	96	−16	+6
10	191	7 10 42.68	107 27 24.42	57 13.06	+0.17	0.0071816	118	−19	+3
11	192	7 14 39.23	108 24 37.48		+0.03	0.0071698		−18	−1

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juli	10	Mi	+4 59.75	7 15 42.43	4 5.11	+22 18 35.5	7 34.8	136.42	15 43.89
	11	Do	5 8.31	7 19 47.54	4 4.69	22 11 0.7	7 57.7	136.30	15 43.92
	12	Fr	5 16.44	7 23 52.23	4 4.26	22 3 3.0	8 20.5	136.18	15 43.95
	13	Sa	5 24.14	7 27 56.49	4 3.81	21 54 42.5	8 43.0	136.05	15 43.98
	14	So	5 31.40	7 32 0.30	4 3.34	21 45 59.5	9 5.4	135.92	15 44.02
	15	Mo	+5 38.18	7 36 3.64	4 2.85	+21 36 54.1	9 27.5	135.78	15 44.07
	16	Di	5 44.47	7 40 6.49	4 2.33	21 27 26.6	9 49.4	135.64	15 44.12
	17	Mi	5 50.25	7 44 8.82	4 1.81	21 17 37.2	10 11.0	135.49	15 44.18
	18	Do	5 55.51	7 48 10.63	4 1.27	21 7 26.2	10 32.4	135.35	15 44.25
	19	Fr	6 0.23	7 52 11.90	4 0.72	20 56 53.8	10 53.7	135.20	15 44.32
	20	Sa	+6 4.39	7 56 12.62	4 0.15	+20 46 0.1	11 14.6	135.04	15 44.40
	21	So	6 7.98	8 0 12.77	3 59.58	20 34 45.5	11 35.2	134.89	15 44.48
	22	Mo	6 11.00	8 4 12.35	3 58.99	20 23 10.3	11 55.7	134.73	15 44.56
	23	Di	6 13.44	8 8 11.34	3 58.40	20 11 14.6	12 15.9	134.57	15 44.65
	24	Mi	6 15.28	8 12 9.74	3 57.80	19 58 58.7	12 35.9	134.40	15 44.74
	25	Do	+6 16.52	8 16 7.54	3 57.20	+19 46 22.8	12 55.6	134.24	15 44.84
	26	Fr	6 17.16	8 20 4.74	3 56.59	19 33 27.2	13 15.0	134.07	15 44.94
	27	Sa	6 17.19	8 24 1.33	3 55.98	19 20 12.2	13 34.1	133.90	15 45.05
	28	So	6 16.62	8 27 57.31	3 55.37	19 6 38.1	13 53.0	133.73	15 45.16
	29	Mo	6 15.44	8 31 52.68	3 54.77	18 52 45.1	14 11.7	133.56	15 45.27
	30	Di	+6 13.65	8 35 47.45	3 54.15	+18 38 33.4	14 30.1	133.39	15 45.38
	31	Mi	6 11.25	8 39 41.60	3 53.54	18 24 3.3	14 48.2	133.22	15 45.50
Aug.	1	Do	6 8.24	8 43 35.14	3 52.95	18 9 15.1	15 6.1	133.04	15 45.62
	2	Fr	6 4.63	8 47 28.09	3 52.35	17 54 9.0	15 23.6	132.87	15 45.74
	3	Sa	6 0.42	8 51 20.44	3 51.76	17 38 45.4	15 40.9	132.70	15 45.87
	4	So	+5 55.63	8 55 12.20	3 51.18	+17 23 4.5	15 57.9	132.52	15 46.00
	5	Mo	5 50.25	8 59 3.38	3 50.59	17 7 6.6	16 14.7	132.35	15 46.13
	6	Di	5 44.29	9 2 53.97	3 50.02	16 50 51.9	16 31.2	132.18	15 46.26
	7	Mi	5 37.75	9 6 43.99	3 49.45	16 34 20.7	16 47.2	132.01	15 46.40
	8	Do	5 30.65	9 10 33.44	3 48.89	16 17 33.5	17 3.1	131.83	15 46.54
	9	Fr	+5 22.98	9 14 22.33	3 48.32	+16 0 30.4	17 18.6	131.66	15 46.69
	10	Sa	5 14.75	9 18 10.65	3 47.76	15 43 11.8	17 33.8	131.50	15 46.84
	11	So	5 5.95	9 21 58.41	3 47.20	15 25 38.0	17 48.7	131.33	15 46.99
	12	Mo	4 56.60	9 25 45.61	3 46.65	15 7 49.3	18 3.2	131.16	15 47.15
	13	Di	4 46.70	9 29 32.26	3 46.10	14 49 46.1	18 17.5	131.00	15 47.32
	14	Mi	+4 36.25	9 33 18.36	3 45.56	+14 31 28.6	18 31.3	130.84	15 47.49
	15	Do	4 25.25	9 37 3.92	3 45.02	14 12 57.3	18 44.8	130.69	15 47.66
	16	Fr	4 13.71	9 40 48.94	3 44.49	13 54 12.5	18 58.1	130.53	15 47.84
	17	Sa	4 1.65	9 44 33.43	3 43.96	13 35 14.4	19 10.9	130.38	15 48.03
	18	So	3 49.06	9 48 17.39		13 16 3.5		130.23	15 48.22

Mittlerer Berliner Mittag.

Monats- und	Jahrestag	Sternzeit	Mittleres Aequ. 1901.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 $d\lambda$	$d\varepsilon$
		h m s	° ' "	' "	"				
Juli 10	191	7 10 42.68	107 27 24.42	57 13.06	+0.17	0.0071816	118	−19	+3
11	192	7 14 39.23	108 24 37.48	57 13.57	+0.03	0.0071698	141	−18	−1
12	193	7 18 35.79	109 21 51.05	57 14.08	−0.12	0.0071557	166	−14	−5
13	194	7 22 32.34	110 19 5.13	57 14.56	−0.25	0.0071391	192	− 5	−8
14	195	7 26 28.90	111 16 19.69	57 14.99	−0.36	0.0071199	218	+ 5	−9
15	196	7 30 25.46	112 13 34.68	57 15.40	−0.46	0.0070981	245	+14	−8
16	197	7 34 22.01	113 10 50.08	57 15.78	−0.53	0.0070736	271	+22	−6
17	198	7 38 18.57	114 8 5.86	57 16.11	−0.57	0.0070465	296	+26	−2
18	199	7 42 15.13	115 5 21.97	57 16.42	−0.57	0.0070169	322	+26	+2
19	200	7 46 11.68	116 2 38.39	57 16.71	−0.55	0.0069847	346	+21	+6
20	201	7 50 8.24	116 59 55.10	57 17.02	−0.51	0.0069501	369	+14	+8
21	202	7 54 4.79	117 57 12.12	57 17.34	−0.44	0.0069132	390	+ 4	+9
22	203	7 58 1.35	118 54 29.46	57 17.68	−0.35	0.0068742	411	− 7	+8
23	204	8 1 57.91	119 51 47.14	57 18.04	−0.25	0.0068331	430	−15	+5
24	205	8 5 54.46	120 49 5.18	57 18.44	−0.14	0.0067901	449	−20	+1
25	206	8 9 51.02	121 46 23.62	57 18.89	−0.02	0.0067452	466	−21	−3
26	207	8 13 47.57	122 43 42.51	57 19.39	+0.09	0.0066986	483	−18	−6
27	208	8 17 44.13	123 41 1.90	57 19.92	+0.20	0.0066503	498	−11	−8
28	209	8 21 40.69	124 38 21.82	57 20.53	+0.30	0.0066005	512	− 3	−9
29	210	8 25 37.24	125 35 42.35	57 21.23	+0.39	0.0065493	526	+ 5	−7
30	211	8 29 33.80	126 33 3.58	57 22.01	+0.45	0.0064967	539	+10	−5
31	212	8 33 30.35	127 30 25.59	57 22.86	+0.48	0.0064428	551	+13	−1
Aug. 1	213	8 37 26.91	128 27 48.45	57 23.82	+0.48	0.0063877	564	+12	+3
2	214	8 41 23.46	129 25 12.27	57 24.88	+0.45	0.0063313	576	+ 8	+7
3	215	8 45 20.02	130 22 37.15	57 26.04	+0.39	0.0062737	589	+ 1	+9
4	216	8 49 16.57	131 20 3.19	57 27.27	+0.31	0.0062148	603	− 7	+9
5	217	8 53 13.13	132 17 30.46	57 28.56	+0.20	0.0061545	618	−15	+7
6	218	8 57 9.68	133 14 59.02	57 29.91	+0.08	0.0060927	634	−19	+4
7	219	9 1 6.24	134 12 28.93	57 31.30	−0.06	0.0060293	652	−20	0
8	220	9 5 2.79	135 10 0.23	57 32.68	−0.20	0.0059641	671	−16	−4
9	221	9 8 59.35	136 7 32.91	57 34.06	−0.33	0.0058970	691	− 9	−7
10	222	9 12 55.90	137 5 6.97	57 35.45	−0.45	0.0058279	712	+ 1	−9
11	223	9 16 52.45	138 2 42.42	57 36.82	−0.55	0.0057567	734	+11	−9
12	224	9 20 49.01	139 0 19.24	57 38.14	−0.62	0.0056833	756	+20	−7
13	225	9 24 45.56	139 57 57.38	57 39.43	−0.66	0.0056077	778	+26	−3
14	226	9 28 42.12	140 55 36.81	57 40.68	−0.67	0.0055299	800	+27	+1
15	227	9 32 38.67	141 53 17.49	57 41.90	−0.66	0.0054499	822	+24	+5
16	228	9 36 35.22	142 50 59.39	57 43.08	−0.62	0.0053677	842	+17	+7
17	229	9 40 31.78	143 48 42.47	57 44.25	−0.55	0.0052835	863	+ 7	+9
18	230	9 44 28.33	144 46 26.72		−0.46	0.0051972		− 3	+8

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Aug.	17	Sa	+4 1.65	9 44 33.43	3 43.96	+13 35 14.4	19 10.9	130.38	15 48.03
	18	So	3 49.06	9 48 17.39	3 43.44	13 16 3.5	19 23.5	130.23	15 48.22
	19	Mo	3 35.95	9 52 0.83	3 42.94	12 56 40.0	19 35.8	130.09	15 48.41
	20	Di	3 22.33	9 55 43.77	3 42.44	12 37 4.2	19 47.7	129.95	15 48.60
	21	Mi	3 8.22	9 59 26.21	3 41.96	12 17 16.5	19 59.3	129.81	15 48.80
	22	Do	+2 53.62	10 3 8.17	3 41.49	+11 57 17.2	20 10.6	129.67	15 49.01
	23	Fr	2 38.55	10 6 49.66	3 41.02	11 37 6.6	20 21.5	129.54	15 49.21
	24	Sa	2 23.02	10 10 30.68	3 40.58	11 16 45.1	20 32.2	129.41	15 49.42
	25	So	2 7.05	10 14 11.26	3 40.15	10 56 12.9	20 42.6	129.29	15 49.63
	26	Mo	1 50.65	10 17 51.41	3 39.74	10 35 30.3	20 52.6	129.17	15 49.85
	27	Di	+1 33.84	10 21 31.15	3 39.34	+10 14 37.7	21 2.4	129.05	15 50.06
	28	Mi	1 16.63	10 25 10.49	3 38.97	9 53 35.3	21 11.8	128.94	15 50.28
	29	Do	0 59.04	10 28 49.46	3 38.61	9 32 23.5	21 20.9	128.84	15 50.50
	30	Fr	0 41.10	10 32 28.07	3 38.27	9 11 2.6	21 29.7	128.74	15 50.72
	31	Sa	0 22.82	10 36 6.34	3 37.96	8 49 32.9	21 38.3	128.64	15 50.95
Sept.	1	So	+0 4.22	10 39 44.30	3 37.67	+ 8 27 54.6	21 46.6	128.54	15 51.17
	2	Mo	—0 14.66	10 43 21.97	3 37.39	8 6 8.0	21 54.5	128.45	15 51.39
	3	Di	0 33.82	10 46 59.36	3 37.14	7 44 13.5	22 2.1	128.37	15 51.62
	4	Mi	0 53.23	10 50 36.50	3 36.91	7 22 11.4	22 9.5	128.29	15 51.85
	5	Do	1 12.88	10 54 13.41	3 36.69	7 0 1.9	22 16.4	128.22	15 52.08
	6	Fr	—1 32.74	10 57 50.10	3 36.49	+ 6 37 45.5	22 23.0	128.15	15 52.31
	7	Sa	1 52.80	11 1 26.59	3 36.31	6 15 22.5	22 29.4	128.09	15 52.55
	8	So	2 13.05	11 5 2.90	3 36.14	5 52 53.1	22 35.3	128.03	15 52.79
	9	Mo	2 33.46	11 8 39.04	3 35.99	5 30 17.8	22 40.9	127.98	15 53.03
	10	Di	2 54.02	11 12 15.03	3 35.86	5 7 36.9	22 46.2	127.93	15 53.27
	11	Mi	—3 14.71	11 15 50.89	3 35.74	+ 4 44 50.7	22 51.1	127.89	15 53.52
	12	Do	3 35.52	11 19 26.63	3 35.64	4 21 59.6	22 55.7	127.86	15 53.77
	13	Fr	3 56.44	11 23 2.27	3 35.55	3 59 3.9	22 59.9	127.83	15 54.02
	14	Sa	4 17.44	11 26 37.82	3 35.48	3 36 4.0	23 3.7	127.81	15 54.28
	15	So	4 38.51	11 30 13.30	3 35.43	3 13 0.3	23 7.3	127.79	15 54.54
	16	Mo	—4 59.64	11 33 48.73	3 35.39	+ 2 49 53.0	23 10.5	127.78	15 54.80
	17	Di	5 20.80	11 37 24.12	3 35.37	2 26 42.5	23 13.3	127.78	15 55.07
	18	Mi	5 41.98	11 40 59.49	3 35.37	2 3 29.2	23 15.8	127.78	15 55.34
	19	Do	6 3.16	11 44 34.86	3 35.39	1 40 13.4	23 17.9	127.79	15 55.60
	20	Fr	6 24.32	11 48 10.25	3 35.43	1 16 55.5	23 19.8	127.80	15 55.88
	21	Sa	—6 45.44	11 51 45.68	3 35.49	+ 0 53 35.7	23 21.3	127.82	15 56.15
	22	So	7 6.51	11 55 21.17	3 35.57	0 30 14.4	23 22.4	127.85	15 56.42
	23	Mo	7 27.50	11 58 56.74	3 35.66	+ 0 6 52.0	23 23.2	127.88	15 56.70
	24	Di	7 48.39	12 2 32.40	3 35.78	— 0 16 31.2	23 23.7	127.92	15 56.97
	25	Mi	8 9.15	12 6 8.18		0 39 54.9		127.96	15 57.25

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Aequ. 1901.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 dλ	dε
			h m s	° ′ ″	′ ″	″				
Aug.	17	229	9 40 31.78	143 48 42.47	57 44.25	−0.55	0.0052835	863	+ 7	+9
	18	230	9 44 28.33	144 46 26.72	57 45.42	−0.46	0.0051972	882	− 3	+8
	19	231	9 48 24.89	145 44 12.14	57 46.57	−0.35	0.0051090	899	−13	+6
	20	232	9 52 21.44	146 41 58.71	57 47.73	−0.24	0.0050191	915	−19	+3
	21	233	9 56 17.99	147 39 46.44	57 48.91	−0.12	0.0049276	931	−21	−1
	22	234	10 0 14.55	148 37 35.35	57 50.11	−0.01	0.0048345	945	−19	−5
	23	235	10 4 11.10	149 35 25.46	57 51.34	+0.10	0.0047400	958	−13	−8
	24	236	10 8 7.65	150 33 16.80	57 52.59	+0.21	0.0046442	970	− 5	−9
	25	237	10 12 4.21	151 31 9.39	57 53.88	+0.29	0.0045472	980	+ 3	−8
	26	238	10 16 0.76	152 29 3.27	57 55.22	+0.35	0.0044492	989	+ 9	−6
	27	239	10 19 57.31	153 26 58.49	57 56.63	+0.38	0.0043503	997	+12	−2
	28	240	10 23 53.87	154 24 55.12	57 58.13	+0.39	0.0042506	1004	+13	+2
	29	241	10 27 50.42	155 22 53.25	57 59.71	+0.37	0.0041502	1010	+ 9	+6
	30	242	10 31 46.97	156 20 52.96	58 1.39	+0.32	0.0040492	1015	+ 3	+8
	31	243	10 35 43.52	157 18 54.35	58 3.17	+0.24	0.0039477	1021	− 5	+9
Sept.	1	244	10 39 40.08	158 16 57.52	58 5.02	+0.14	0.0038456	1028	−13	+8
	2	245	10 43 36.63	159 15 2.54	58 6.94	+0.01	0.0037428	1035	−18	+5
	3	246	10 47 33.18	160 13 9.48	58 8.93	−0.12	0.0036393	1043	−20	+1
	4	247	10 51 29.73	161 11 18.41	58 10.97	−0.26	0.0035350	1051	−17	−3
	5	248	10 55 26.29	162 9 29.38	58 13.03	−0.40	0.0034299	1062	−11	−6
	6	249	10 59 22.84	163 7 42.41	58 15.09	−0.53	0.0033237	1074	− 2	−8
	7	250	11 3 19.39	164 5 57.50	58 17.15	−0.63	0.0032163	1086	+ 8	−9
	8	251	11 7 15.95	165 4 14.65	58 19.19	−0.70	0.0031077	1099	+17	−7
	9	252	11 11 12.50	166 2 33.84	58 21.20	−0.74	0.0029978	1113	+24	−5
	10	253	11 15 9.05	167 0 55.04	58 23.18	−0.76	0.0028865	1128	+27	−1
	11	254	11 19 5.60	167 59 18.22	58 25.09	−0.74	0.0027737	1141	+25	+3
	12	255	11 23 2.15	168 57 43.31	58 26.97	−0.70	0.0026596	1156	+20	+7
	13	256	11 26 58.71	169 56 10.28	58 28.81	−0.63	0.0025440	1170	+11	+9
	14	257	11 30 55.26	170 54 39.09	58 30.62	−0.53	0.0024270	1182	+ 1	+9
	15	258	11 34 51.81	171 53 9.71	58 32.39	−0.42	0.0023088	1194	− 9	+7
	16	259	11 38 48.36	172 51 42.10	58 34.12	−0.30	0.0021894	1205	−17	+4
	17	260	11 42 44.92	173 50 16.22	58 35.85	−0.19	0.0020689	1216	−20	0
	18	261	11 46 41.47	174 48 52.07	58 37.56	−0.07	0.0019473	1224	−20	−4
	19	262	11 50 38.02	175 47 29.63	58 39.26	+0.04	0.0018249	1232	−15	−7
	20	263	11 54 34.57	176 46 8.89	58 40.95	+0.15	0.0017017	1238	− 9	−9
	21	264	11 58 31.12	177 44 49.84	58 42.66	+0.24	0.0015779	1243	− 1	−9
	22	265	12 2 27.68	178 43 32.50	58 44.37	+0.30	0.0014536	1247	+ 8	−7
	23	266	12 6 24.23	179 42 16.87	58 46.10	+0.34	0.0013289	1248	+12	−3
	24	267	12 10 20.78	180 41 2.97	58 47.86	+0.36	0.0012041	1249	+13	+1
	25	268	12 14 17.33	181 39 50.83		+0.35	0.0010792		+11	+5

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept. 24	Di	— 7 48.39	12 2 32.40	3 35.78	— 0 16 31.2	23 23.7	127.92	15 56.97
25	Mi	8 9.15	12 6 8.18	3 35.93	0 39 54.9	23 23.9	127.96	15 57.25
26	Do	8 29.77	12 9 44.11	3 36.10	1 3 18.8	23 23.7	128.01	15 57.52
27	Fr	8 50.23	12 13 20.21	3 36.29	1 26 42.5	23 23.2	128.07	15 57.80
28	Sa	9 10.50	12 16 56.50	3 36.51	1 50 5.7	23 22.4	128.13	15 58.07
29	So	— 9 30.54	12 20 33.01	3 36.75	— 2 13 28.1	23 21.3	128.20	15 58.34
30	Mo	9 50.33	12 24 9.76	3 37.02	2 36 49.4	23 19.9	128.27	15 58.61
Oct. 1	Di	10 9.86	12 27 46.78	3 37.32	3 0 9.3	23 18.0	128.35	15 58.89
2	Mi	10 29.10	12 31 24.10	3 37.63	3 23 27.3	23 15.9	128.43	15 59.16
3	Do	10 48.02	12 35 1.73	3 37.97	3 46 43.2	23 13.4	128.52	15 59.43
4	Fr	—11 6.60	12 38 39.70	3 38.33	— 4 9 56.6	23 10.5	128.62	15 59.70
5	Sa	11 24.82	12 42 18.03	3 38.72	4 33 7.1	23 7.3	128.72	15 59.97
6	So	11 42.66	12 45 56.75	3 39.11	4 56 14.4	23 3.7	128.83	16 0.24
7	Mo	12 0.10	12 49 35.86	3 39.52	5 19 18.1	22 59.7	128.95	16 0.51
8	Di	12 17.13	12 53 15.38	3 39.96	5 42 17.8	22 55.4	129.07	16 0.78
9	Mi	—12 33.72	12 56 55.34	3 40.41	— 6 5 13.2	22 50.6	129.19	16 1.06
10	Do	12 49.86	13 0 35.75	3 40.88	6 28 3.8	22 45.4	129.32	16 1.33
11	Fr	13 5.54	13 4 16.63	3 41.36	6 50 49.2	22 39.9	129.46	16 1.60
12	Sa	13 20.73	13 7 57.99	3 41.85	7 13 29.1	22 34.1	129.61	16 1.88
13	So	13 35.43	13 11 39.84	3 42.37	7 36 3.2	22 27.7	129.76	16 2.16
14	Mo	—13 49.61	13 15 22.21	3 42.90	— 7 58 30.9	22 21.0	129.91	16 2.43
15	Di	14 3.27	13 19 5.11	3 43.44	8 20 51.9	22 13.9	130.07	16 2.71
16	Mi	14 16.38	13 22 48.55	3 44.00	8 43 5.8	22 6.5	130.23	16 2.99
17	Do	14 28.94	13 26 32.55	3 44.57	9 5 12.3	21 58.6	130.40	16 3.26
18	Fr	14 40.92	13 30 17.12	3 45.16	9 27 10.9	21 50.3	130.58	16 3.54
19	Sa	—14 52.31	13 34 2.28	3 45.76	— 9 49 1.2	21 41.6	130.76	16 3.82
20	So	15 3.10	13 37 48.04	3 46.38	10 10 42.8	21 32.6	130.94	16 4.10
21	Mo	15 13.27	13 41 34.42	3 47.02	10 32 15.4	21 23.2	131.13	16 4.37
22	Di	15 22.80	13 45 21.44	3 47.67	10 53 38.6	21 13.4	131.32	16 4.65
23	Mi	15 31.69	13 49 9.11	3 48.33	11 14 52.0	21 3.1	131.52	16 4.92
24	Do	—15 39.91	13 52 57.44	3 49.02	—11 35 55.1	20 52.6	131.72	16 5.19
25	Fr	15 47.45	13 56 46.46	3 49.72	11 56 47.7	20 41.6	131.92	16 5.46
26	Sa	15 54.28	14 0 36.18	3 50.44	12 17 29.3	20 30.2	132.13	16 5.72
27	So	16 0.40	14 4 26.62	3 51.17	12 37 59.5	20 18.4	132.34	16 5.98
28	Mo	16 5.78	14 8 17.79	3 51.93	12 58 17.9	20 6.4	132.56	16 6.24
29	Di	—16 10.41	14 12 9.72	3 52.70	—13 18 24.3	19 53.8	132.78	16 6.50
30	Mi	16 14.26	14 16 2.42	3 53.49	13 38 18.1	19 41.0	133.00	16 6.75
31	Do	16 17.32	14 19 55.91	3 54.29	13 57 59.1	19 27.6	133.22	16 7.00
Nov. 1	Fr	16 19.58	14 23 50.20	3 55.11	14 17 26.7	19 13.9	133.44	16 7.24
2	Sa	16 21.03	14 27 45.31		14 36 40.6		133.67	16 7.49

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Aequ. 1901.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. (in 0".01 dλ	dε
Sept. 24	267	12h 10m 20s.78	180° 41' 2".97	58' 47".86	+0".36	0.0012041	1249	+13	+1
25	268	12 14 17.33	181 39 50.83	58 49.66	+0.35	0.0010792	1248	+11	+5
26	269	12 18 13.88	182 38 40.49	58 51.54	+0.31	0.0009544	1246	+ 5	+7
27	270	12 22 10.44	183 37 32.03	58 53.50	+0.23	0.0008298	1242	− 3	+9
28	271	12 26 6.99	184 36 25.53	58 55.54	+0.13	0.0007056	1238	−10	+8
29	272	12 30 3.54	185 35 21.07	58 57.67	+0.01	0.0005818	1234	−17	+6
30	273	12 34 0.09	186 34 18.74	58 59.88	−0.12	0.0004584	1231	−20	+3
Oct. 1	274	12 37 56.64	187 33 18.62	59 2.14	−0.26	0.0003353	1227	−19	−1
2	275	12 41 53.20	188 32 20.76	59 4.45	−0.39	0.0002126	1225	−14	−5
3	276	12 45 49.75	189 31 25.21	59 6.79	−0.52	0.0000901	1224	− 6	−8
4	277	12 49 46.30	190 30 32.00	59 9.15	−0.62	9.9999677	1224	+ 4	−9
5	278	12 53 42.85	191 29 41.15	59 11.52	−0.70	9.9998453	1225	+14	−8
6	279	12 57 39.40	192 28 52.67	59 13.85	−0.75	9.9997228	1227	+22	−6
7	280	13 1 35.96	193 28 6.52	59 16.14	−0.77	9.9996001	1230	+26	−2
8	281	13 5 32.51	194 27 22.66	59 18.39	−0.77	9.9994771	1233	+26	+2
9	282	13 9 29.06	195 26 41.05	59 20.60	−0.73	9.9993538	1237	+22	+6
10	283	13 13 25.61	196 26 1.65	59 22.76	−0.66	9.9992301	1240	+14	+8
11	284	13 17 22.17	197 25 24.41	59 24.86	−0.57	9.9991061	1243	+ 4	+9
12	285	13 21 18.72	198 24 49.27	59 26.90	−0.46	9.9989818	1247	− 6	+8
13	286	13 25 15.27	199 24 16.17	59 28.91	−0.34	9.9988571	1249	−15	+5
14	287	13 29 11.82	200 23 45.08	59 30.86	−0.21	9.9987322	1251	−19	+2
15	288	13 33 8.38	201 23 15.94	59 32.75	−0.08	9.9986071	1253	−20	−3
16	289	13 37 4.93	202 22 48.69	59 34.60	+0.04	9.9984818	1253	−17	−6
17	290	13 41 1.48	203 22 23.29	59 36.43	+0.15	9.9983565	1251	−10	−8
18	291	13 44 58.04	204 21 59.72	59 38.22	+0.25	9.9982314	1249	− 2	−9
19	292	13 48 54.59	205 21 37.94	59 39.96	+0.33	9.9981065	1246	+ 6	−7
20	293	13 52 51.14	206 21 17.90	59 41.69	+0.38	9.9979819	1241	+11	−5
21	294	13 56 47.69	207 20 59.59	59 43.39	+0.41	9.9978578	1234	+13	−1
22	295	14 0 44.25	208 20 42.98	59 45.10	+0.40	9.9977344	1226	+12	+3
23	296	14 4 40.80	209 20 28.08	59 46.82	+0.36	9.9976118	1216	+ 7	+7
24	297	14 8 37.35	210 20 14.90	59 48.56	+0.29	9.9974902	1205	− 1	+9
25	298	14 12 33.91	211 20 3.46	59 50.36	+0.19	9.9973697	1192	− 9	+9
26	299	14 16 30.46	212 19 53.82	59 52.20	+0.07	9.9972505	1177	−16	+7
27	300	14 20 27.01	213 19 46.02	59 54.12	−0.06	9.9971328	1162	−20	+4
28	301	14 24 23.57	214 19 40.14	59 56.12	−0.20	9.9970166	1148	−21	0
29	302	14 28 20.12	215 19 36.26	59 58.17	−0.34	9.9969018	1132	−17	−4
30	303	14 32 16.68	216 19 34.43	60 0.27	−0.48	9.9967886	1118	− 9	−7
31	304	14 36 13.23	217 19 34.70	60 2.41	−0.60	9.9966768	1104	0	−9
Nov. 1	305	14 40 9.78	218 19 37.11	60 4.58	−0.68	9.9965664	1092	+11	−9
2	306	14 44 6.34	219 19 41.69		−0.74	9.9964572		+20	−7

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
Nov. 1	Fr	−16ᵐ 19ˢ.58	14ʰ 23ᵐ 50ˢ.20	3ᵐ 55ˢ.11	−14° 17′ 26″.7	19′ 13″.9	133ˢ.44	16′ 7″.24
2	Sa	16 21.03	14 27 45.31	3 55.93	14 36 40.6	18 59.8	133.67	16 7.49
3	So	16 21.66	14 31 41.24	3 56.76	14 55 40.4	18 45.3	133.90	16 7.73
4	Mo	16 21.45	14 35 38.00	3 57.60	15 14 25.7	18 30.3	134.13	16 7.97
5	Di	16 20.40	14 39 35.60	3 58.44	15 32 56.0	18 15.0	134.36	16 8.21
6	Mi	−16 18.51	14 43 34.04	3 59.30	−15 51 11.0	17 59.2	134.60	16 8.44
7	Do	16 15.77	14 47 33.34	4 0.14	16 9 10.2	17 43.0	134.84	16 8.67
8	Fr	16 12.18	14 51 33.48	4 1.00	16 26 53.2	17 26.5	135.07	16 8.90
9	Sa	16 7.74	14 55 34.48	4 1.85	16 44 19.7	17 9.4	135.31	16 9.13
10	So	16 2.45	14 59 36.33	4 2.70	17 1 29.1	16 51.9	135.55	16 9.36
11	Mo	−15 56.30	15 3 39.03	4 3.55	−17 18 21.0	16 34.1	135.79	16 9.59
12	Di	15 49.31	15 7 42.58	4 4.39	17 34 55.1	16 15.8	136.03	16 9.81
13	Mi	15 41.47	15 11 46.97	4 5.24	17 51 10.9	15 57.2	136.26	16 10.03
14	Do	15 32.79	15 15 52.21	4 6.07	18 7 8.1	15 38.2	136.50	16 10.25
15	Fr	15 23.27	15 19 58.28	4 6.91	18 22 46.3	15 18.7	136.74	16 10.47
16	Sa	−15 12.92	15 24 5.19	4 7.74	−18 38 5.0	14 58.8	136.98	16 10.69
17	So	15 1.74	15 28 12.93	4 8.55	18 53 3.8	14 38.6	137.21	16 10.91
18	Mo	14 49.74	15 32 21.48	4 9.36	19 7 42.4	14 18.0	137.44	16 11.12
19	Di	14 36.93	15 36 30.84	4 10.17	19 22 0.4	13 57.1	137.67	16 11.32
20	Mi	14 23.32	15 40 41.01	4 10.97	19 35 57.5	13 35.7	137.90	16 11.53
21	Do	−14 8.91	15 44 51.98	4 11.75	−19 49 33.2	13 14.0	138.13	16 11.73
22	Fr	13 53.71	15 49 3.73	4 12.53	20 2 47.2	12 51.9	138.35	16 11.93
23	Sa	13 37.74	15 53 16.26	4 13.30	20 15 39.1	12 29.5	138.57	16 12.12
24	So	13 21.00	15 57 29.56	4 14.06	20 28 8.6	12 6.8	138.78	16 12.31
25	Mo	13 3.49	16 1 43.62	4 14.82	20 40 15.4	11 43.7	138.99	16 12.49
26	Di	−12 45.23	16 5 58.44	4 15.57	−20 51 59.1	11 20.3	139.20	16 12.66
27	Mi	12 26.22	16 10 14.01	4 16.30	21 3 19.4	10 56.5	139.40	16 12.83
28	Do	12 6.47	16 14 30.31	4 17.03	21 14 15.9	10 32.5	139.60	16 13.00
29	Fr	11 46.00	16 18 47.34	4 17.74	21 24 48.4	10 8.2	139.79	16 13.16
30	Sa	11 24.82	16 23 5.08	4 18.43	21 34 56.6	9 43.5	139.98	16 13.32
Dec. 1	So	−11 2.94	16 27 23.51	4 19.10	−21 44 40.1	9 18.6	140.16	16 13.47
2	Mo	10 40.39	16 31 42.61	4 19.76	21 53 58.7	8 53.4	140.33	16 13.61
3	Di	10 17.19	16 36 2.37	4 20.39	22 2 52.1	8 27.9	140.50	16 13.75
4	Mi	9 53.36	16 40 22.76	4 20.99	22 11 20.0	8 2.1	140.66	16 13.89
5	Do	9 28.93	16 44 43.75	4 21.57	22 19 22.1	7 36.1	140.81	16 14.02
6	Fr	−9 3.92	16 49 5.32	4 22.12	−22 26 58.2	7 9.8	140.96	16 14.15
7	Sa	8 38.36	16 53 27.44	4 22.64	22 34 8.0	6 43.3	141.10	16 14.28
8	So	8 12.27	16 57 50.08	4 23.14	22 40 51.3	6 16.7	141.24	16 14.40
9	Mo	7 45.69	17 2 13.22	4 23.59	22 47 8.0	5 49.7	141.36	16 14.52
10	Di	7 18.65	17 6 36.81		22 52 57.7		141.48	16 14.63

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Aequ. 1901.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 dλ	dε
			h m s	° ′ ″	′ ″	″				
Nov.	1	305	14 40 9.78	218 19 37.11	60 4.58	−0.68	9.9965664	1092	+11	−9
	2	306	14 44 6.34	219 19 41.69	60 6.73	−0.74	9.9964572	1081	+20	−7
	3	307	14 48 2.89	220 19 48.42	60 8.86	−0.77	9.9963491	1071	+25	−3
	4	308	14 51 59.45	221 19 57.28	60 10.96	−0.76	9.9962420	1061	+27	+1
	5	309	14 55 56.00	222 20 8.24	60 13.02	−0.73	9.9961359	1052	+23	+5
	6	310	14 59 52.56	223 20 21.26	60 15.03	−0.68	9.9960307	1045	+17	+7
	7	311	15 3 49.11	224 20 36.29	60 16.98	−0.60	9.9959262	1037	+ 8	+9
	8	312	15 7 45.67	225 20 53.27	60 18.85	−0.49	9.9958225	1030	− 3	+8
	9	313	15 11 42.22	226 21 12.12	60 20.67	−0.37	9.9957195	1022	−12	+6
	10	314	15 15 38.78	227 21 32.79	60 22.41	−0.24	9.9956173	1015	−18	+2
	11	315	15 19 35.33	228 21 55.20	60 24.08	−0.11	9.9955158	1006	−20	−2
	12	316	15 23 31.89	229 22 19.28	60 25.68	+0.02	9.9954152	998	−18	−5
	13	317	15 27 28.44	230 22 44.96	60 27.22	+0.14	9.9953154	989	−12	−8
	14	318	15 31 25.00	231 23 12.18	60 28.71	+0.24	9.9952165	980	− 5	−9
	15	319	15 35 21.55	232 23 40.89	60 30.12	+0.33	9.9951185	969	+ 3	−8
	16	320	15 39 18.11	233 24 11.01	60 31.47	+0.40	9.9950216	958	+10	−6
	17	321	15 43 14.66	234 24 42.48	60 32.74	+0.43	9.9949258	945	+13	−2
	18	322	15 47 11.22	235 25 15.22	60 33.97	+0.43	9.9948313	931	+12	+2
	19	323	15 51 7.77	236 25 49.19	60 35.18	+0.40	9.9947382	915	+ 9	+6
	20	324	15 55 4.33	237 26 24.37	60 36.35	+0.35	9.9946467	897	+ 2	+8
	21	325	15 59 0.89	238 27 0.72	60 37.51	+0.26	9.9945570	878	− 7	+9
	22	326	16 2 57.44	239 27 38.23	60 38.68	+0.15	9.9944692	857	−14	+8
	23	327	16 6 54.00	240 28 16.91	60 39.87	+0.02	9.9943835	835	−19	+5
	24	328	16 10 50.55	241 28 56.78	60 41.11	−0.12	9.9943000	812	−21	+1
	25	329	16 14 47.11	242 29 37.89	60 42.38	−0.26	9.9942188	787	−18	−3
	26	330	16 18 43.67	243 30 20.27	60 43.72	−0.40	9.9941401	763	−12	−6
	27	331	16 22 40.22	244 31 3.99	60 45.12	−0.51	9.9940638	738	− 3	−8
	28	332	16 26 36.78	245 31 49.11	60 46.56	−0.60	9.9939900	714	+ 7	−9
	29	333	16 30 33.34	246 32 35.67	60 47.98	−0.66	9.9939186	691	+17	−7
	30	334	16 34 29.89	247 33 23.65	60 49.43	−0.70	9.9938495	669	+24	−4
Dec.	1	335	16 38 26.45	248 34 13.08	60 50.89	−0.71	9.9937826	649	+27	0
	2	336	16 42 23.01	249 35 3.97	60 52.31	−0.68	9.9937177	629	+25	+3
	3	337	16 46 19.56	250 35 56.28	60 53.68	−0.63	9.9936548	611	+19	+7
	4	338	16 50 16.12	251 36 49.96	60 54.99	−0.55	9.9935937	593	+11	+9
	5	339	16 54 12.68	252 37 44.95	60 56.26	−0.45	9.9935344	576	0	+9
	6	340	16 58 9.24	253 38 41.21	60 57.45	−0.33	9.9934768	560	− 9	+7
	7	341	17 2 5.79	254 39 38.66	60 58.58	−0.21	9.9934208	543	−16	+4
	8	342	17 6 2.35	255 40 37.24	60 59.62	−0.08	9.9933665	528	−19	0
	9	343	17 9 58.91	256 41 36.86	61 0.59	+0.05	9.9933137	512	−19	−4
	10	344	17 13 55.46	257 42 37.45		+0.17	9.9932625		−14	−7

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ' "	' "	s	' "
Dec. 9	Mo	—7 45.69	17 2 13.22	4 23.59	—22 47 8.0	5 49.7	141.36	16 14.52
10	Di	7 18.65	17 6 36.81	4 24.02	22 52 57.7	5 22.6	141.48	16 14.63
11	Mi	6 51.19	17 11 0.83	4 24.41	22 58 20.3	4 55.4	141.59	16 14.74
12	Do	6 23.34	17 15 25.24	4 24.77	23 3 15.7	4 27.9	141.69	16 14.85
13	Fr	5 55.13	17 19 50.01	4 25.10	23 7 43.6	4 0.3	141.79	16 14.96
14	Sa	—5 26.58	17 24 15.11	4 25.39	—23 11 43.9	3 32.6	141.87	16 15.06
15	So	4 57.75	17 28 40.50	4 25.63	23 15 16.5	3 4.8	141.95	16 15.16
16	Mo	4 28.68	17 33 6.13	4 25.86	23 18 21.3	2 36.8	142.02	16 15.25
17	Di	3 59.38	17 37 31.99	4 26.04	23 20 58.1	2 8.8	142.08	16 15.34
18	Mi	3 29.89	17 41 58.03	4 26.19	23 23 6.9	1 40.7	142.13	16 15.42
19	Do	—3 0.26	17 46 24.22	4 26.30	—23 24 47.6	1 12.4	142.17	16 15.50
20	Fr	2 30.52	17 50 50.52	4 26.38	23 26 0.0	0 44.3	142.21	16 15.58
21	Sa	2 0.69	17 55 16.90	4 26.43	23 26 44.3	0 16.1	142.23	16 15.65
22	So	1 30.82	17 59 43.33	4 26.44	23 27 0.4	0 12.3	142.24	16 15.71
23	Mo	1 0.94	18 4 9.77	4 26.43	23 26 48.1	0 40.5	142.25	16 15.77
24	Di	—0 31.07	18 8 36.20	4 26.39	—23 26 7.6	1 8.8	142.24	16 15.82
25	Mi	—0 1.24	18 13 2.59	4 26.32	23 24 58.8	1 37.0	142.23	16 15.86
26	Do	+0 28.53	18 17 28.91	4 26.22	23 23 21.8	2 5.3	142.21	16 15.90
27	Fr	0 58.19	18 21 55.13	4 26.09	23 21 16.5	2 33.4	142.17	16 15.93
28	Sa	1 27.72	18 26 21.22	4 25.93	23 18 43.1	3 1.5	142.13	16 15.96
29	So	+1 57.09	18 30 47.15	4 25.74	—23 15 41.6	3 29.6	142.08	16 15.98
30	Mo	2 26.28	18 35 12.89	4 25.53	23 12 12.0	3 57.5	142.02	16 15.99
31	Di	2 55.25	18 39 38.42	4 25.27	23 8 14.5	4 25.3	141.95	16 16.00
32	Mi	3 23.96	18 44 3.69	4 24.99	23 3 49.2	4 53.0	141.87	16 16.00
33	Do	3 52.40	18 48 28.68		22 58 56.2		141.79	16 16.00

Frühjahrs-Aequinoctium	März	20	20h
Sommer-Solstitium	Juni	21	16
Herbst-Aequinoctium	Sept.	23	7
Winter-Solstitium	Dec.	22	1

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Aequ. 1901.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
Dec. 9	343	17ʰ 9ᵐ 58ˢ.91	256° 41′ 36″.86	61′ 0″.59	+0″.05	9.9933137	512	−19	−4
10	344	17 13 55.46	257 42 37.45	61 1.48	+0.17	9.9932625	498	−14	−7
11	345	17 17 52.02	258 43 38.93	61 2.30	+0.28	9.9932127	482	− 7	−9
12	346	17 21 48.58	259 44 41.23	61 3.01	+0.36	9.9931645	466	+ 1	−9
13	347	17 25 45.14	260 45 44.24	61 3.64	+0.42	9.9931179	450	+ 8	−7
14	348	17 29 41.69	261 46 47.88	61 4.20	+0.47	9.9930729	434	+12	−3
15	349	17 33 38.25	262 47 52.08	61 4.66	+0.49	9.9930295	416	+12	+1
16	350	17 37 34.81	263 48 56.74	61 5.05	+0.48	9.9929879	398	+10	+4
17	351	17 41 31.36	264 50 1.79	61 5.38	+0.43	9.9929481	377	+ 4	+7
18	352	17 45 27.92	265 51 7.17	61 5.64	+0.34	9.9929104	356	− 4	+9
19	353	17 49 24.48	266 52 12.81	61 5.85	+0.24	9.9928748	333	−12	+8
20	354	17 53 21.04	267 53 18.66	61 6.05	+0.12	9.9928415	309	−18	+6
21	355	17 57 17.59	268 54 24.71	61 6.24	−0.01	9.9928106	283	−21	+2
22	356	18 1 14.15	269 55 30.95	61 6.45	−0.15	9.9927823	256	−20	−2
23	357	18 5 10.71	270 56 37.40	61 6.68	−0.28	9.9927567	228	−15	−6
24	358	18 9 7.27	271 57 44.08	61 6.93	−0.39	9.9927339	198	− 7	−8
25	359	18 13 3.83	272 58 51.01	61 7.23	−0.49	9.9927141	169	+ 3	−9
26	360	18 17 0.38	273 59 58.24	61 7.59	−0.57	9.9926972	140	+14	−8
27	361	18 20 56.94	275 1 5.83	61 7.96	−0.61	9.9926832	111	+22	−6
28	362	18 24 53.50	276 2 13.79	61 8.35	−0.62	9.9926721	84	+26	−2
29	363	18 28 50.06	277 3 22.14	61 8.75	−0.60	9.9926637	57	+26	+2
30	364	18 32 46.61	278 4 30.89	61 9.13	−0.56	9.9926580	32	+22	+6
31	365	18 36 43.17	279 5 40.02	61 9.49	−0.49	9.9926548	8	+14	+8
32	366	18 40 39.73	280 6 49.51	61 9.80	−0.39	9.9926540	— 15	+ 4	+9
33	367	18 44 36.28	281 7 59.31		−0.27	9.9926555		− 6	+8

Perigaeum	Jan.	2	9ʰ
Apogaeum	Juli	4	6
Perigaeum	Dec.	31	20

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	+			—			—		
Jan. 0.0	0.159 9603	86205		0.889 9712	13464		0.386 0870	5837	
0.5	0.168 5808	86071	—2361	0.888 6248	14153	— 376	0.385 5033	6137	—164
1.0	0.177 1879	85930		0.887 2095	14842		0.384 8896	6435	
1.5	0.185 7809	85784	2353	0.885 7253	15527	415	0.384 2461	6733	180
2.0	0.194 3593	85631		0.884 1726	16211		0.383 5728	7029	
2.5	0.202 9224	85472	2344	0.882 5515	16893	453	0.382 8699	7325	197
3.0	0.211 4696	85307		0.880 8622	17576		0.382 1374	7622	
3.5	0.220 0003	85135	2335	0.879 1046	18257	491	0.381 3752	7918	214
4.0	0.228 5138	84958		0.877 2789	18935		0.380 5834	8212	
4.5	0.237 0096		2325	0.875 3854		529	0.379 7622		230
	+	84774		—	19613		—	8506	
5.0	0.245 4870	84584		0.873 4241	20288		0.378 9116	8799	
5.5	0.253 9454	84389	—2315	0.871 3953	20963	— 567	0.378 0317	9092	—247
6.0	0.262 3843	84187		0.869 2990	21636		0.377 1225	9385	
6.5	0.270 8030	83979	2303	0.867 1354	22308	605	0.376 1840	9677	263
7.0	0.279 2009	83765		0.864 9046	22978		0.375 2163	9968	
7.5	0.287 5774	83544	2291	0.862 6068	23648	642	0.374 2195	10258	279
8.0	0.295 9318	83317		0.860 2420	24316		0.373 1937	10548	
8.5	0.304 2635	83084	2279	0.857 8104	24981	680	0.372 1389	10837	296
9.0	0.312 5719	82845		0.855 3123	25645		0.371 0552	11127	
9.5	0.320 8564		2265	0.852 7478		717	0.369 9425		312
	+	82598		—	26307		—	11414	
10.0	0.329 1162	82346		0.850 1171	26968		0.368 8011	11701	
10.5	0.337 3508	82087	—2251	0.847 4203	27627	— 754	0.367 6310	11987	—328
11.0	0.345 5595	81822		0.844 6576	28285		0.366 4323	12273	
11.5	0.353 7417	81550	2236	0.841 8291	28941	790	0.365 2050	12557	344
12.0	0.361 8967	81273		0.838 9350	29593		0.363 9493	12841	
12.5	0.370 0240	80988	2221	0.835 9757	30244	827	0.362 6652	13123	360
13.0	0.378 1228	80697		0.832 9513	30894		0.361 3529	13406	
13.5	0.386 1925	80400	2204	0.829 8619	31541	863	0.360 0123	13686	375
14.0	0.394 2325	80097		0.826 7078	32186		0.358 6437	13966	
14.5	0.402 2422		2187	0.823 4892		899	0.357 2471		391
	+	79787		—	32829		—	14244	
15.0	0.410 2209	79470		0.820 2063	33468		0.355 8227	14523	
15.5	0.418 1679	79148	—2170	0.816 8595	34105	— 934	0.354 3704	14800	—406
16.0	0.426 0827	78818		0.813 4490	34741		0.352 8904	15075	
16.5	0.433 9645	78482	2152	0.809 9749	35375	969	0.351 3829	15350	422
17.0	0.441 8127	78140		0.806 4374	36005		0.349 8479	15623	
17.5	0.449 6267	77791	2133	0.802 8369	36632	1004	0.348 2856	15895	437
18.0	0.457 4058	77435		0.799 1737	37257		0.346 6961	16165	
18.5	0.465 1493	77074	2113	0.795 4480	37878	1039	0.345 0796	16435	452
19.0	0.472 8567			0.791 6602			0.343 4361		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	+			—			—		
Jan. 19.0	0.472 8567	76705		0.791 6602	38496		0.343 4361	16703	
19.5	0.480 5272	76331	−2093	0.787 8106	39112	−1073	0.341 7658	16969	−467
20.0	0.488 1603	75950		0.783 8994	39724		0.340 0689	17235	
20.5	0.495 7553	75563	2072	0.779 9270	40333	1107	0.338 3454	17498	482
21.0	0.503 3116	75169		0.775 8937	40938		0.336 5956	17761	
21.5	0.510 8285	74769	2050	0.771 7999	41540	1141	0.334 8195	18021	496
22.0	0.518 3054	74363		0.767 6459	42137		0.333 0174	18280	
22.5	0.525 7417	73952	2028	0.763 4322	42731	1174	0.331 1894	18538	511
23.0	0.533 1369	73534		0.759 1591	43321		0.329 3356	18793	
23.5	0.540 4903		2005	0.754 8270		1207	0.327 4563		525
	+	73111		—	43908		—	19047	
24.0	0.547 8014	72681		0.750 4362	44491		0.325 5516	19299	
24.5	0.555 0695	72246	−1982	0.745 9871	45069	−1240	0.323 6217	19549	−539
25.0	0.562 2941	71807		0.741 4802	45642		0.321 6668	19798	
25.5	0.569 4748	71361	1958	0.736 9160	46212	1272	0.319 6870	20046	553
26.0	0.576 6109	70910		0.732 2948	46779		0.317 6824	20291	
26.5	0.583 7019	70455	1933	0.727 6169	47341	1304	0.315 6533	20534	567
27.0	0.590 7474	69994		0.722 8828	47897		0.313 5999	20776	
27.5	0.597 7468	69528	1908	0.718 0931	48451	1335	0.311 5223	21016	581
28.0	0.604 6996	69055		0.713 2480	49000		0.309 4207	21254	
28.5	0.611 6051		1882	0.708 3480		1366	0.307 2953		594
	+	68580		—	49546		—	21490	
29.0	0.618 4631	68100		0.703 3934	50086		0.305 1463	21725	
29.5	0.625 2731	67615	−1855	0.698 3848	50623	−1397	0.302 9738	21958	−608
30.0	0.632 0346	67125		0.693 3225	51155		0.300 7780	22189	
30.5	0.638 7471	66631	1828	0.688 2070	51683	1427	0.298 5591	22419	621
31.0	0.645 4102	66132		0.683 0387	52207		0.296 3172	22646	
31.5	0.652 0234	65629	1801	0.677 8180	52728	1457	0.294 0526	22872	634
Febr. 1.0	0.658 5863	65120		0.672 5452	53243		0.291 7654	23096	
1.5	0.665 0983	64608	1773	0.667 2209	53756	1486	0.289 4558	23318	646
2.0	0.671 5591	64091		0.661 8453	54264		0.287 1240	23540	
2.5	0.677 9682		1744	0.656 4189		1515	0.284 7700		659
	+	63570		—	54768		—	23758	
3.0	0.684 3252	63044		0.650 9421	55268		0.282 3942	23975	
3.5	0.690 6296	62514	−1715	0.645 4153	55764	−1543	0.279 9967	24191	−671
4.0	0.696 8810	61980		0.639 8389	56255		0.277 5776	24405	
4.5	0.703 0790	61440	1685	0.634 2134	56742	1571	0.275 1371	24616	683
5.0	0.709 2230	60896		0.628 5392	57225		0.272 6755	24826	
5.5	0.715 3126	60348	1655	0.622 8167	57705	1598	0.270 1929	25034	695
6.0	0.721 3474	59796		0.617 0462	58181		0.267 6895	25241	
6.5	0.727 3270	59240	1624	0.611 2281	58651	1625	0.265 1654	25446	707
7.0	0.733 2510			0.605 3630			0.262 6208		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	+			—			—		
Febr. 7.0	0.733 2510	58678		0.605 3630	59118		0.262 6208	25648	
7.5	0.739 1188	58111	−1592	0.599 4512	59579	−1651	0.260 0560	25849	−718
8.0	0.744 9299	57541		0.593 4933	60037		0.257 4711	26048	
8.5	0.750 6840	56966	1561	0.587 4896	60490	1677	0.254 8663	26245	730
9.0	0.756 3806	56389		0.581 4406	60940		0.252 2418	26440	
9.5	0.762 0195	55805	1529	0.575 3466	61384	1703	0.249 5978	26632	741
10.0	0.767 6000	55217		0.569 2082	61824		0.246 9346	26824	
10.5	0.773 1217	54625	1496	0.563 0258	62260	1728	0.244 2522	27013	751
11.0	0.778 5842	54029		0.556 7998	62690		0.241 5509	27200	
11.5	0.783 9871		1463	0.550 5308		1752	0.238 8309		762
	+	53428		—	63116		—	27384	
12.0	0.789 3299	52824		0.544 2192	63537		0.236 0925	27567	
12.5	0.794 6123	52215	−1429	0.537 8655	63954	−1776	0.233 3358	27748	−772
13.0	0.799 8338	51603		0.531 4701	64366		0.230 5610	27926	
13.5	0.804 9941	50985	1395	0.525 0335	64772	1799	0.227 7684	28102	782
14.0	0.810 0926	50363		0.518 5563	65174		0.224 9582	28277	
14.5	0.815 1289	49737	1360	0.512 0389	65571	1821	0.222 1305	28449	792
15.0	0.820 1026	49108		0.505 4818	65962		0.219 2856	28618	
15.5	0.825 0134	48474	1325	0.498 8856	66349	1843	0.216 4238	28785	802
16.0	0.829 8608	47837		0.492 2507	66730		0.213 5453	28951	
16.5	0.834 6445		1290	0.485 5777		1865	0.210 6502		811
	+	47195		—	67105		—	29113	
17.0	0.839 3640	46549		0.478 8672	67476		0.207 7389	29273	
17.5	0.844 0189	45899	−1254	0.472 1196	67841	−1886	0.204 8116	29431	−820
18.0	0.848 6088	45246		0.465 3355	68200		0.201 8685	29587	
18.5	0.853 1334	44589	1218	0.458 5155	68552	1906	0.198 9098	29739	829
19.0	0.857 5923	43930		0.451 6603	68900		0.195 9359	29890	
19.5	0.861 9853	43266	1182	0.444 7703	69241	1926	0.192 9469	30037	838
20.0	0.866 3119	42599		0.437 8462	69578		0.189 9432	30182	
20.5	0.870 5718	41929	1145	0.430 8884	69908	1945	0.186 9250	30325	846
21.0	0.874 7647	41256		0.423 8976	70230		0.183 8925	30466	
21.5	0.878 8903		1108	0.416 8746		1964	0.180 8459		854
	+	40580		—	70548		—	30603	
22.0	0.882 9483	39901		0.409 8198	70859		0.177 7856	30737	
22.5	0.886 9384	39221	−1070	0.402 7339	71164	−1982	0.174 7119	30870	−862
23.0	0.890 8605	38538		0.395 6175	71465		0.171 6249	31000	
23.5	0.894 7143	37852	1032	0.388 4710	71759	1999	0.168 5249	31127	870
24.0	0.898 4995	37163		0.381 2951	72047		0.165 4122	31252	
24.5	0.902 2158	36472	994	0.374 0904	72329	2016	0.162 2870	31374	877
25.0	0.905 8630	35782		0.366 8575	72605		0.159 1496	31494	
25.5	0.909 4412	35088	956	0.359 5970	72874	2032	0.156 0002	31611	884
26.0	0.912 9500			0.352 3096			0.152 8391		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	+			—			—		
Febr. 26.0	0.912 9500	34391		0.352 3096	73138		0.152 8391	31726	
26.5	0.916 3891	33692	−917	0.344 9958	73397	−2048	0.149 6665	31838	−891
27.0	0.919 7583	32992		0.337 6561	73650		0.146 4827	31948	
27.5	0.923 0575	32291	878	0.330 2911	73898	2063	0.143 2879	32056	897
28.0	0.926 2866	31588		0.322 9013	74140		0.140 0823	32161	
28.5	0.929 4454	30882	838	0.315 4873	74377	2077	0.136 8662	32264	904
März 1.0	0.932 5336	30174		0.308 0496	74606		0.133 6398	32364	
1.5	0.935 5510	29466	799	0.300 5890	74831	2091	0.130 4034	32462	910
2.0	0.938 4976	28757		0.293 1059	75051		0.127 1572	32557	
2.5	0.941 3733		759	0.285 6008		2104	0.123 9015		915
	+	28046		—	75265		—	32651	
3.0	0.944 1779	27333		0.278 0743	75473		0.120 6364	32742	
3.5	0.946 9112	26617	−719	0.270 5270	75677	−2116	0.117 3622	32830	−921
4.0	0.949 5729	25899		0.262 9593	75875		0.114 0792	32917	
4.5	0.952 1628	25182	679	0.255 3718	76067	2128	0.110 7875	33001	926
5.0	0.954 6810	24464		0.247 7651	76253		0.107 4874	33081	
5.5	0.957 1274	23744	638	0.240 1398	76434	2139	0.104 1793	33160	930
6.0	0.959 5018	23020		0.232 4964	76610		0.100 8633	33237	
6.5	0.961 8038	22296	597	0.224 8354	76780	2149	0.097 5396	33311	935
7.0	0.964 0334	21570		0.217 1574	76945		0.094 2085	33382	
7.5	0.966 1904		557	0.209 4629		2159	0.090 8703		939
	+	20843		—	77104		—	33452	
8.0	0.968 2747	20115		0.201 7525	77257		0.087 5251	33519	
8.5	0.970 2862	19386	−516	0.194 0268	77406	−2168	0.084 1732	33583	−943
9.0	0.972 2248	18656		0.186 2862	77549		0.080 8149	33645	
9.5	0.974 0904	17922	474	0.178 5313	77685	2177	0.077 4504	33705	947
10.0	0.975 8826	17188		0.170 7628	77817		0.074 0799	33762	
10.5	0.977 6014	16453	433	0.162 9811	77942	2185	0.070 7037	33816	950
11.0	0.979 2467	15718		0.155 1869	78061		0.067 3221	33868	
11.5	0.980 8185	14981	392	0.147 3808	78176	2192	0.063 9353	33918	953
12.0	0.982 3166	14242		0.139 5632	78284		0.060 5435	33965	
12.5	0.983 7408		350	0.131 7348		2198	0.057 1470		956
	+	13502		—	78387		—	34009	
13.0	0.985 0910	12762		0.123 8961	78483		0.053 7461	34050	
13.5	0.986 3672	12020	−309	0.116 0478	78575	−2204	0.050 3411	34090	−959
14.0	0.987 5692	11276		0.108 1903	78660		0.046 9321	34126	
14.5	0.988 6968	10532	267	0.100 3243	78739	2209	0.043 5195	34161	961
15.0	0.989 7500	9789		0.092 4504	78813		0.040 1034	34192	
15.5	0.990 7289	9043	225	0.084 5691	78880	2214	0.036 6842	34221	963
16.0	0.991 6332	8296		0.076 6811	78941		0.033 2621	34248	
16.5	0.992 4628	7548	183	0.068 7870	78995	2218	0.029 8373	34271	965
17.0	0.993 2176			0.060 8875			0.026 4102		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	*X*		Red. auf 1900.0	*Y*		Red. auf 1900.0	*Z*		Red. auf 1900.0
	+			—			—		
März 17.0	0.993 2176	6800		0.060 8875	79045		0.026 4102	34292	
17.5	0.993 8976	6051	−141	0.052 9830	79087	−2221	0.022 9810	34309	−966
18.0	0.994 5027	5303		0.045 0743	79123		0.019 5501	34324	
18.5	0.995 0330	4554	99	0.037 1620	79152	2223	0.016 1177	34337	967
19.0	0.995 4884	3804		0.029 2468	79176		0.012 6840	34347	
19.5	0.995 8688	3054	57	0.021 3292	79193	2225	0.009 2493	34354	968
20.0	0.996 1742	2303		0.013 4099	79202		0.005 8139	34357	
20.5	0.996 4045		−15	0.005 4897		2226	0.002 3782		968
	+	1553		+	79206		+	34359	
21.0	0.996 5598	804		0.002 4309	79204		0.001 0577	34358	
21.5	0.996 6402		+27	0.010 3513		2227	0.004 4935		969
	+	56		+	79195		+	34353	
22.0	0.996 6458	693		0.018 2708	79180		0.007 9288	34346	
22.5	0.996 5765	1441	+69	0.026 1888	79158	−2227	0.011 3634	34337	−969
23.0	0.996 4324	2188		0.034 1046	79129		0.014 7971	34323	
23.5	0.996 2136	2933	111	0.042 0175	79094	2226	0.018 2294	34309	968
24.0	0.995 9203	3678		0.049 9269	79053		0.021 6603	34292	
24.5	0.995 5525	4421	153	0.057 8322	79007	2224	0.025 0895	34271	968
25.0	0.995 1104	5165		0.065 7329	78954		0.028 5166	34248	
25.5	0.994 5939	5907	195	0.073 6283	78895	2222	0.031 9414	34223	967
26.0	0.994 0032	6647		0.081 5178	78830		0.035 3637	34195	
26.5	0.993 3385		237	0.089 4008		2220	0.038 7832		966
	+	7386		+	78759		+	34165	
27.0	0.992 5999	8123		0.097 2767	78684		0.042 1997	34133	
27.5	0.991 7876	8860	+279	0.105 1451	78602	−2216	0.045 6130	34097	−964
28.0	0.990 9016	9594		0.113 0053	78515		0.049 0227	34059	
28.5	0.989 9422	10328	321	0.120 8568	78421	2212	0.052 4286	34018	962
29.0	0.988 9094	11059		0.128 6989	78323		0.055 8304	33977	
29.5	0.987 8035	11789	362	0.136 5312	78218	2207	0.059 2281	33933	960
30.0	0.986 6246	12518		0.144 3530	78109		0.062 6214	33885	
30.5	0.985 3728	13246	404	0.152 1639	77993	2202	0.066 0099	33835	958
31.0	0.984 0482	13972		0.159 9632	77873		0.069 3934	33783	
31.5	0.982 6510		445	0.167 7505		2196	0.072 7717		955
	+	14696		+	77747		+	33729	
April 1.0	0.981 1814	15420		0.175 5252	77616		0.076 1446	33673	
1.5	0.979 6394	16141	+486	0.183 2868	77480	−2189	0.079 5119	33614	−952
2.0	0.978 0253	16861		0.191 0348	77338		0.082 8733	33553	
2.5	0.976 3392	17580	527	0.198 7686	77191	2182	0.086 2286	33489	949
3.0	0.974 5812	18296		0.206 4877	77038		0.089 5775	33423	
3.5	0.972 7516	19011	568	0.214 1915	76881	2174	0.092 9198	33355	946
4.0	0.970 8505	19725		0.221 8796	76718		0.096 2553	33285	
4.5	0.968 8780	20437	609	0.229 5514	76549	2165	0.099 5838	33212	942
5.0	0.966 8343			0.237 2063			0.102 9050		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	+			+			+		
April 5.0	0.966 8343	21147		0.237 2063	76376		0.102 9050	33136	
5.5	0.964 7196	21856	+ 650	0.244 8439	76198	−2156	0.106 2186	33059	−938
6.0	0.962 5340	22563		0.252 4637	76013		0.109 5245	32980	
6.5	0.960 2777	23269	691	0.260 0650	75825	2146	0.112 8225	32898	934
7.0	0.957 9508	23972		0.267 6475	75630		0.116 1123	32813	
7.5	0.955 5536	24673	731	0.275 2105	75430	2135	0.119 3936	32726	929
8.0	0.953 0863	25373		0.282 7535	75226		0.122 6662	32637	
8.5	0.950 5490	26071	771	0.290 2761	75015	2124	0.125 9299	32547	924
9.0	0.947 9419	26768		0.297 7776	74799		0.129 1846	32453	
9.5	0.945 2651	27462	811	0.305 2575	74579	2112	0.132 4299	32356	919
	+			+			+		
10.0	0.942 5189	28155		0.312 7154	74353		0.135 6655	32258	
10.5	0.939 7034	28846	+ 850	0.320 1507	74122	−2100	0.138 8913	32158	−914
11.0	0.936 8188	29534		0.327 5629	73885		0.142 1071	32055	
11.5	0.933 8654	30220	889	0.334 9514	73643	2087	0.145 3126	31949	908
12.0	0.930 8434	30905		0.342 3157	73395		0.148 5075	31842	
12.5	0.927 7529	31588	928	0.349 6552	73142	2073	0.151 6917	31731	902
13.0	0.924 5941	32267		0.356 9694	72884		0.154 8648	31619	
13.5	0.921 3674	32945	967	0.364 2578	72620	2059	0.158 0267	31504	896
14.0	0.918 0729	33622		0.371 5198	72351		0.161 1771	31386	
14.5	0.914 7107	34295	1006	0.378 7549	72075	2044	0.164 3157	31267	889
	+			+			+		
15.0	0.911 2812	34966		0.385 9624	71795		0.167 4424	31145	
15.5	0.907 7846	35635	+1044	0.393 1419	71508	−2029	0.170 5569	31020	−883
16.0	0.904 2211	36300		0.400 2927	71218		0.173 6589	30892	
16.5	0.900 5911	36963	1082	0.407 4145	70920	2013	0.176 7481	30763	876
17.0	0.896 8948	37622		0.414 5065	70616		0.179 8244	30633	
17.5	0.893 1326	38279	1120	0.421 5681	70307	1996	0.182 8877	30499	869
18.0	0.889 3047	38931		0.428 5988	69993		0.185 9376	30361	
18.5	0.885 4116	39582	1157	0.435 5981	69673	1979	0.188 9737	30222	862
19.0	0.881 4534	40229		0.442 5654	69348		0.191 9959	30081	
19.5	0.877 4305	40872	1194	0.449 5002	69018	1961	0.195 0040	29937	854
	+			+			+		
20.0	0.873 3433	41511		0.456 4020	68682		0.197 9977	29792	
20.5	0.869 1922	42147	+1230	0.463 2702	68340	−1942	0.200 9769	29644	−846
21.0	0.864 9775	42777		0.470 1042	67994		0.203 9413	29493	
21.5	0.860 6998	43405	1266	0.476 9036	67643	1923	0.206 8906	29341	838
22.0	0.856 3593	44029		0.483 6679	67287		0.209 8247	29188	
22.5	0.851 9564	44648	1302	0.490 3966	66927	1904	0.212 7435	29031	829
23.0	0.847 4916	45264		0.497 0893	66561		0.215 6466	28873	
23.5	0.842 9652	45876	1338	0.503 7454	66192	1884	0.218 5339	28713	820
24.0	0.838 3776			0.510 3646			0.221 4052		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	+			+			+		
April 24.0	0.838 3776	46483		0.510 3646	65817		0.221 4052	28551	
24.5	0.833 7293	47087	+1373	0.516 9463	65438	−1863	0.224 2603	28387	−811
25.0	0.829 0206	47687		0.523 4901	65054		0.227 0990	28220	
25.5	0.824 2519	48282	1408	0.529 9955	64668	1842	0.229 9210	28053	801
26.0	0.819 4237	48872		0.536 4623	64276		0.232 7263	27883	
26.5	0.814 5365	49460	1442	0.542 8899	63880	1820	0.235 5146	27712	792
27.0	0.809 5905	50044		0.549 2779	63480		0.238 2858	27539	
27.5	0.804 5861	50623	1476	0.555 6259	63075	1798	0.241 0397	27365	782
28.0	0.799 5238	51199		0.561 9334	62667		0.243 7762	27187	
28.5	0.794 4039	51770	1509	0.568 2001	62255	1775	0.246 4949	27009	772
	+			+			+		
29.0	0.789 2269	52337		0.574 4256	61839		0.249 1958	26828	
29.5	0.783 9932	52900	+1542	0.580 6095	61419	−1752	0.251 8786	26647	−762
30.0	0.778 7032	53459		0.586 7514	60995		0.254 5433	26463	
30.5	0.773 3573	54014	1574	0.592 8509	60567	1728	0.257 1896	26278	752
Mai 1.0	0.767 9559	54566		0.598 9076	60135		0.259 8174	26090	
1.5	0.762 4993	55114	1606	0.604 9211	59699	1704	0.262 4264	25902	741
2.0	0.756 9879	55658		0.610 8910	59259		0.265 0166	25711	
2.5	0.751 4221	56197	1638	0.616 8169	58816	1679	0.267 5877	25519	731
3.0	0.745 8024	56730		0.622 6985	58369		0.270 1396	25325	
3.5	0.740 1294	57261	1669	0.628 5354	57918	1654	0.272 6721	25130	720
	+			+			+		
4.0	0.734 4033	57789		0.634 3272	57464		0.275 1851	24932	
4.5	0.728 6244	58312	+1700	0.640 0736	57006	−1628	0.277 6783	24733	−708
5.0	0.722 7932	58831		0.645 7742	56543		0.280 1516	24533	
5.5	0.716 9101	59346	1730	0.651 4285	56077	1602	0.282 6049	24331	697
6.0	0.710 9755	59857		0.657 0362	55608		0.285 0380	24127	
6.5	0.704 9898	60364	1760	0.662 5970	55135	1575	0.287 4507	23921	685
7.0	0.698 9534	60864		0.668 1105	54658		0.289 8428	23715	
7.5	0.692 8670	61363	1789	0.673 5763	54178	1548	0.292 2143	23506	674
8.0	0.686 7307	61858		0.678 9941	53692		0.294 5649	23295	
8.5	0.680 5449	62349	1818	0.684 3633	53204	1521	0.296 8944	23082	662
	+			+			+		
9.0	0.674 3100	62835		0.689 6837	52713		0.299 2026	22869	
9.5	0.668 0265	63316	+1846	0.694 9550	52217	−1493	0.301 4895	22654	−650
10.0	0.661 6949	63793		0.700 1767	51718		0.303 7549	22437	
10.5	0.655 3156	64266	1874	0.705 3485	51215	1465	0.305 9986	22218	637
11.0	0.648 8890	64734		0.710 4700	50709		0.308 2204	21998	
11.5	0.642 4156	65199	1901	0.715 5409	50198	1436	0.310 4202	21776	625
12.0	0.635 8957	65658		0.720 5607	49684		0.312 5978	21553	
12.5	0.629 3299	66114	1927	0.725 5291	49165	1406	0.314 7531	21328	612
13.0	0.622 7185			0.730 4456			0.316 8859		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	*X*		Red. auf 1900.0	*Y*		Red. auf 1900.0	*Z*		Red. auf 1900.0
	+			+			+		
Mai 13.0	0.622 7185	66564		0.730 4456	48643		0.316 8859	21099	
13.5	0.616 0621	67010	+1953	0.735 3099	48117	−1377	0.318 9958	20871	−599
14.0	0.609 3611	67450		0.740 1216	47587		0.321 0829	20642	
14.5	0.602 6161	67886	1978	0.744 8803	47054	1347	0.323 1471	20410	586
15.0	0.595 8275	68317		0.749 5857	46515		0.325 1881	20176	
15.5	0.588 9958	68742	2003	0.754 2372	45975	1316	0.327 2057	19941	573
16.0	0.582 1216	69163		0.758 8347	45431		0.329 1998	19705	
16.5	0.575 2053	69578	2028	0.763 3778	44883	1285	0.331 1703	19468	559
17.0	0.568 2475	69986		0.767 8661	44331		0.333 1171	19228	
17.5	0.561 2489	70390	2051	0.772 2992	43776	1254	0.335 0399	18987	546
	+			+			+		
18.0	0.554 2099	70789		0.776 6768	43218		0.336 9386	18744	
18.5	0.547 1310	71181	+2074	0.780 9986	42657	−1223	0.338 8130	18501	−532
19.0	0.540 0129	71567		0.785 2643	42092		0.340 6631	18257	
19.5	0.532 8562	71948	2097	0.789 4735	41525	1191	0.342 4888	18012	518
20.0	0.525 6614	72322		0.793 6260	40955		0.344 2900	17764	
20.5	0.518 4292	72692	2119	0.797 7215	40382	1159	0.346 0664	17516	504
21.0	0.511 1600	73056		0.801 7597	39805		0.347 8180	17266	
21.5	0.503 8544	73413	2140	0.805 7402	39227	1126	0.349 5446	17015	490
22.0	0.496 5131	73764		0.809 6629	38647		0.351 2461	16764	
22.5	0.489 1367	74111	2161	0.813 5276	38065	1093	0.352 9225	16512	476
	+			+			+		
23.0	0.481 7256	74452		0.817 3341	37480		0.354 5737	16259	
23.5	0.474 2804	74786	+2181	0.821 0821	36893	−1060	0.356 1996	16004	−461
24.0	0.466 8018	75114		0.824 7714	36304		0.357 8000	15750	
24.5	0.459 2904	75438	2200	0.828 4018	35712	1027	0.359 3750	15493	447
25.0	0.451 7466	75755		0.831 9730	35118		0.360 9243	15236	
25.5	0.444 1711	76068	2219	0.835 4848	34523	993	0.362 4479	14977	432
26.0	0.436 5643	76375		0.838 9371	33927		0.363 9456	14719	
26.5	0.428 9268	76676	2237	0.842 3298	33328	959	0.365 4175	14460	417
27.0	0.421 2592	76972		0.845 6626	32727		0.366 8635	14200	
27.5	0.413 5620	77262	2255	0.848 9353	32123	924	0.368 2835	13938	402
	+			+			+		
28.0	0.405 8358	77546		0.852 1476	31518		0.369 6773	13676	
28.5	0.398 0812	77826	+2272	0.855 2994	30912	−890	0.371 0449	13413	−387
29.0	0.390 2986	78099		0.858 3906	30304		0.372 3862	13150	
29.5	0.382 4887	78368	2288	0.861 4210	29695	855	0.373 7012	12886	372
30.0	0.374 6519	78630		0.864 3905	29084		0.374 9898	12621	
30.5	0.366 7889	78888	2304	0.867 2989	28470	820	0.376 2519	12354	357
31.0	0.358 9001	79140		0.870 1459	27855		0.377 4873	12087	
31.5	0.350 9861	79387	2319	0.872 9314	27239	785	0.378 6960	11820	341
Juni 1.0	0.343 0474			0.875 6553			0.379 8780		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	*X*		Red. auf 1900.0	*Y*		Red. auf 1900.0	*Z*		Red. auf 1900.0
	+			+			+		
Juni 1.0	0.343 0474			0.875 6553			0.379 8780		
		79628			26621			11552	
1.5	0.335 0846		+2333	0.878 3174		−749	0.381 0332		−326
		79864			26001			11283	
2.0	0.327 0982			0.880 9175			0.382 1615		
		80094			25381			11014	
2.5	0.319 0888		2347	0.883 4556		713	0.383 2629		310
		80320			24759			10744	
3.0	0.311 0568			0.885 9315			0.384 3373		
		80540			24134			10473	
3.5	0.303 0028		2360	0.888 3449		677	0.385 3846		295
		80754			23508			10201	
4.0	0.294 9274			0.890 6957			0.386 4047		
		80964			22882			9928	
4.5	0.286 8310		2372	0.892 9839		641	0.387 3975		279
		81167			22254			9656	
5.0	0.278 7143			0.895 2093			0.388 3631		
		81366			21624			9383	
5.5	0.270 5777		2384	0.897 3717		605	0.389 3014		263
	+	81559		+	20992		+	9108	
6.0	0.262 4218			0.899 4709			0.390 2122		
		81747			20358			8833	
6.5	0.254 2471		+2395	0.901 5067		−568	0.391 0955		−247
		81929			19724			8558	
7.0	0.246 0542			0.903 4791			0.391 9513		
		82107			19088			8281	
7.5	0.237 8435		2405	0.905 3879		532	0.392 7794		231
		82278			18450			8003	
8.0	0.229 6157			0.907 2329			0.393 5797		
		82444			17813			7726	
8.5	0.221 3713		2415	0.909 0142		495	0.394 3523		215
		82604			17172			7448	
9.0	0.213 1109			0.910 7314			0.395 0971		
		82759			16529			7168	
9.5	0.204 8350		2424	0.912 3843		458	0.395 8139		199
		82908			15884			6889	
10.0	0.196 5442			0.913 9727			0.396 5028		
		83052			15239			6609	
10.5	0.188 2390		2432	0.915 4966		421	0.397 1637		183
	+	83189		+	14593		+	6328	
11.0	0.179 9201			0.916 9559			0.397 7965		
		83321			13945			6047	
11.5	0.171 5880		+2439	0.918 3504		−384	0.398 4012		−167
		83446			13295			5764	
12.0	0.163 2434			0.919 6799			0.398 9776		
		83565			12643			5481	
12.5	0.154 8869		2446	0.920 9442		346	0.399 5257		151
		83677			11991			5198	
13.0	0.146 5192			0.922 1433			0.400 0455		
		83784			11338			4914	
13.5	0.138 1408		2452	0.923 2771		309	0.400 5369		134
		83885			10684			4631	
14.0	0.129 7523			0.924 3455			0.401 0000		
		83980			10027			4346	
14.5	0.121 3543		2458	0.925 3482		271	0.401 4346		118
		84069			9371			4062	
15.0	0.112 9474			0.926 2853			0.401 8408		
		84149			8715			3777	
15.5	0.104 5325		2463	0.927 1568		234	0.402 2185		102
	+	84224		+	8057		+	3492	
16.0	0.096 1101			0.927 9625			0.402 5677		
		84293			7397			3206	
16.5	0.087 6808		+2467	0.928 7022		−196	0.402 8883		−85
		84354			6738			2921	
17.0	0.079 2454			0.929 3760			0.403 1804		
		84410			6079			2634	
17.5	0.070 8044		2470	0.929 9839		158	0.403 4438		69
		84458			5420			2349	
18.0	0.062 3586			0.930 5259			0.403 6787		
		84500			4759			2063	
18.5	0.053 9086		2473	0.931 0018		121	0.403 8850		52
		84537			4100			1777	
19.0	0.045 4549			0.931 4118			0.404 0627		
		84566			3440			1491	
19.5	0.036 9983		2475	0.931 7558		83	0.404 2118		36
		84590			2780			1205	
20.0	0.028 5393			0.932 0338			0.404 3323		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	+			+			+		
Juni 20.0	0.028 5393	84607		0.932 0338	2122		0.404 3323	920	
20.5	0.020 0786	84617	+2476	0.932 2460	1462	−45	0.404 4243	635	−20
21.0	0.011 6169	84622		0.932 3922	803		0.404 4878	349	
21.5	0.003 1547		2477	0.932 4725		−7	0.404 5227		−3
	—	84620		+	145		+	64	
22.0	0.005 3073	84613		0.932 4870	513		0.404 5291	221	
22.5	0.013 7686	84599	2477	0.932 4357	1171	+30	0.404 5070	506	+13
23.0	0.022 2285	84580		0.932 3186	1827		0.404 4564	791	
23.5	0.030 6865	84555	2476	0.932 1359	2484	68	0.404 3773	1076	30
24.0	0.039 1420	84524		0.931 8875	3139		0.404 2697	1360	
24.5	0.047 5944		2474	0.931 5736		106	0.404 1337		46
	—	84486		+	3794		+	1644	
25.0	0.056 0430	84443		0.931 1942	4449		0.403 9693	1927	
25.5	0.064 4873	84395	+2472	0.930 7493	5104	+144	0.403 7766	2211	+63
26.0	0.072 9268	84341		0.930 2389	5756		0.403 5555	2494	
26.5	0.081 3609	84280	2469	0.929 6633	6409	181	0.403 3061	2777	79
27.0	0.089 7889	84214		0.929 0224	7061		0.403 0284	3059	
27.5	0.098 2103	84143	2466	0.928 3163	7712	219	0.402 7225	3342	95
28.0	0.106 6246	84065		0.927 5451	8361		0.402 3883	3624	
28.5	0.115 0311	83983	2462	0.926 7090	9010	257	0.402 0259	3906	112
29.0	0.123 4294	83894		0.925 8080	9660		0.401 6353	4187	
29.5	0.131 8188		2457	0.924 8420		294	0.401 2166		128
	—	83801		+	10307		+	4469	
30.0	0.140 1989	83701		0.923 8113	10953		0.400 7697	4749	
30.5	0.148 5690	83597	+2451	0.922 7160	11599	+332	0.400 2948	5030	+144
Juli 1.0	0.156 9287	83486		0.921 5561	12244		0.399 7918	5309	
1.5	0.165 2773	83371	2445	0.920 3317	12888	369	0.399 2609	5589	160
2.0	0.173 6144	83249		0.919 0429	13531		0.398 7020	5869	
2.5	0.181 9393	83123	2438	0.917 6898	14173	406	0.398 1151	6148	177
3.0	0.190 2516	82992		0.916 2725	14816		0.397 5003	6426	
3.5	0.198 5508	82854	2430	0.914 7909	15456	443	0.396 8577	6705	193
4.0	0.206 8362	82711		0.913 2453	16095		0.396 1872	6982	
4.5	0.215 1073		2422	0.911 6358		480	0.395 4890		209
	—	82563		+	16734		+	7259	
5.0	0.223 3636	82409		0.909 9624	17373		0.394 7631	7538	
5.5	0.231 6045	82249	+2413	0.908 2251	18010	+517	0.394 0093	7814	+225
6.0	0.239 8294	82085		0.906 4241	18647		0.393 2279	8090	
6.5	0.248 0379	81915	2403	0.904 5594	19282	554	0.392 4189	8367	241
7.0	0.256 2294	81738		0.902 6312	19917		0.391 5822	8642	
7.5	0.264 4032	81557	2392	0.900 6395	20550	591	0.390 7180	8918	257
8.0	0.272 5589	81370		0.898 5845	21183		0.389 8262	9193	
8.5	0.280 6959	81176	2381	0.896 4662	21815	627	0.388 9069	9468	273
9.0	0.288 8135			0.894 2847			0.387 9601		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901		X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
		—			+			+		
Juli	9.0	0.288 8135	80977		0.894 2847	22446		0.387 9601	9741	
	9.5	0.296 9112	80771	+2370	0.892 0401	23076	+ 663	0.386 9860	10014	+289
	10.0	0.304 9883	80561		0.889 7325	23705		0.385 9846	10287	
	10.5	0.313 0444	80343	2357	0.887 3620	24333	699	0.384 9559	10560	304
	11.0	0.321 0787	80120		0.884 9287	24958		0.383 8999	10831	
	11.5	0.329 0907	79891	2344	0.882 4329	25582	735	0.382 8168	11102	320
	12.0	0.337 0798	79656		0.879 8747	26206		0.381 7066	11372	
	12.5	0.345 0454	79415	2330	0.877 2541	26827	771	0.380 5694	11642	335
	13.0	0.352 9869	79167		0.874 5714	27448		0.379 4052	11911	
	13.5	0.360 9036		2316	0.871 8266		806	0.378 2141		351
		—	78913		+	28066		+	12178	
	14.0	0.368 7949	78654		0.869 0200	28681		0.376 9963	12445	
	14.5	0.376 6603	78387	+2301	0.866 1519	29296	+ 841	0.375 7518	12711	+366
	15.0	0.384 4990	78115		0.863 2223	29908		0.374 4807	12977	
	15.5	0.392 3105	77837	2285	0.860 2315	30518	876	0.373 1830	13241	381
	16.0	0.400 0942	77553		0.857 1797	31125		0.371 8589	13504	
	16.5	0.407 8495	77263	2269	0.854 0672	31730	911	0.370 5085	13766	396
	17.0	0.415 5758	76968		0.850 8942	32332		0.369 1319	14026	
	17.5	0.423 2726	76666	2252	0.847 6610	32932	946	0.367 7293	14287	411
	18.0	0.430 9392	76358		0.844 3678	33530		0.366 3006	14546	
	18.5	0.438 5750		2234	0.841 0148		980	0.364 8460		426
		—	76046		+	34125		+	14804	
	19.0	0.446 1796	75727		0.837 6023	34716		0.363 3656	15060	
	19.5	0.453 7523	75404	+2216	0.834 1307	35305	+1014	0.361 8596	15314	+441
	20.0	0.461 2927	75075		0.830 6002	35891		0.360 3282	15569	
	20.5	0.468 8002	74741	2197	0.827 0111	36475	1047	0.358 7713	15821	456
	21.0	0.476 2743	74400		0.823 3636	37055		0.357 1892	16073	
	21.5	0.483 7143	74056	2177	0.819 6581	37633	1081	0.355 5819	16323	470
	22.0	0.491 1199	73706		0.815 8948	38207		0.353 9496	16572	
	22.5	0.498 4905	73351	2157	0.812 0741	38779	1114	0.352 2924	16820	485
	23.0	0.505 8256	72991		0.808 1962	39348		0.350 6104	17067	
	23.5	0.513 1247		2136	0.804 2614		1146	0.348 9037		499
		—	72625		+	39914		+	17313	
	24.0	0.520 3872	72255		0.800 2700	40475		0.347 1724	17556	
	24.5	0.527 6127	71880	+2115	0.796 2225	41035	+1179	0.345 4168	17799	+513
	25.0	0.534 8007	71500		0.792 1190	41593		0.343 6369	18040	
	25.5	0.541 9507	71116	2093	0.787 9597	42146	1211	0.341 8329	18281	527
	26.0	0.549 0623	70727		0.783 7451	42696		0.340 0048	18520	
	26.5	0.556 1350	70332	2071	0.779 4755	43244	1242	0.338 1528	18757	540
	27.0	0.563 1682	69933		0.775 1511	43789		0.336 2771	18994	
	27.5	0.570 1615	69529	2048	0.770 7722	44330	1274	0.334 3777	19228	554
	28.0	0.577 1144			0.766 3392			0.332 4549		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901		X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
		—			+			+		
Juli	28.0	0.577 1144	69122		0.766 3392	44867		0.332 4549	19462	
	28.5	0.584 0266	68709	+2024	0.761 8525	45401	+1305	0.330 5087	19694	+568
	29.0	0.590 8975	68292		0.757 3124	45934		0.328 5393	19925	
	29.5	0.597 7267	67871	2000	0.752 7190	46462	1335	0.326 5468	20155	581
	30.0	0.604 5138	67445		0.748 0728	46988		0.324 5313	20383	
	30.5	0.611 2583	67014	1975	0.743 3740	47510	1366	0.322 4930	20610	594
	31.0	0.617 9597	66580		0.738 6230	48030		0.320 4320	20836	
	31.5	0.624 6177	66140	1950	0.733 8200	48546	1396	0.318 3484	21061	607
Aug.	1.0	0.631 2317	65698		0.728 9654	49059		0.316 2423	21284	
	1.5	0.637 8015		1924	0.724 0595		1425	0.314 1139		620
		—	65248		+	49570		+	21505	
	2.0	0.644 3263	64797		0.719 1025	50077		0.311 9634	21726	
	2.5	0.650 8060	64340	+1897	0.714 0948	50582	+1454	0.309 7908	21945	+632
	3.0	0.657 2400	63879		0.709 0366	51083		0.307 5963	22163	
	3.5	0.663 6279	63413	1870	0.703 9283	51581	1483	0.305 3800	22379	645
	4.0	0.669 9692	62944		0.698 7702	52076		0.303 1421	22595	
	4.5	0.676 2636	62469	1842	0.693 5626	52569	1511	0.300 8826	22808	657
	5.0	0.682 5105	61988		0.688 3057	53059		0.298 6018	23021	
	5.5	0.688 7093	61503	1814	0.682 9998	53545	1539	0.296 2997	23232	669
	6.0	0.694 8596	61015		0.677 6453	54027		0.293 9765	23442	
	6.5	0.700 9611		1786	0.672 2426		1566	0.291 6323		681
		—	60521		+	54507		+	23650	
	7.0	0.707 0132	60023		0.666 7919	54982		0.289 2673	23856	
	7.5	0.713 0155	59519	+1757	0.661 2937	55455	+1593	0.286 8817	24061	+693
	8.0	0.718 9674	59011		0.655 7482	55923		0.284 4756	24264	
	8.5	0.724 8685	58498	1727	0.650 1559	56389	1620	0.282 0492	24466	704
	9.0	0.730 7183	57980		0.644 5170	56851		0.279 6026	24667	
	9.5	0.736 5163	57457	1697	0.638 8319	57310	1646	0.277 1359	24865	716
	10.0	0.742 2620	56929		0.633 1009	57763		0.274 6494	25061	
	10.5	0.747 9549	56398	1666	0.627 3246	58213	1671	0.272 1433	25256	727
	11.0	0.753 5947	55861		0.621 5033	58659		0.269 6177	25449	
	11.5	0.759 1808		1635	0.615 6374		1696	0.267 0728		738
		—	55321		+	59100		+	25641	
	12.0	0.764 7129	54775		0.609 7274	59537		0.264 5087	25831	
	12.5	0.770 1904	54224	+1604	0.603 7737	59970	+1721	0.261 9256	26017	+749
	13.0	0.775 6128	53669		0.597 7767	60399		0.259 3239	26203	
	13.5	0.780 9797	53111	1572	0.591 7368	60824	1745	0.256 7036	26386	759
	14.0	0.786 2908	52548		0.585 6544	61243		0.254 0650	26568	
	14.5	0.791 5456	51981	1540	0.579 5301	61658	1769	0.251 4082	26748	769
	15.0	0.796 7437	51409		0.573 3643	62068		0.248 7334	26925	
	15.5	0.801 8846	50833	1507	0.567 1575	62473	1792	0.246 0409	27101	779
	16.0	0.806 9679			0.560 9102			0.243 3308		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	—			+			+		
Aug. 16.0	0.806 9679	50254		0.560 9102	62874		0.243 3308	27275	
16.5	0.811 9933	49672	+1473	0.554 6228	63269	+1814	0.240 6033	27446	+789
17.0	0.816 9605	49085		0.548 2959	63661		0.237 8587	27615	
17.5	0.821 8690	48495	1440	0.541 9298	64047	1836	0.235 0972	27782	799
18.0	0.826 7185	47901		0.535 5251	64429		0.232 3190	27948	
18.5	0.831 5086	47304	1406	0.529 0822	64806	1858	0.229 5242	28111	808
19.0	0.836 2390	46703		0.522 6016	65177		0.226 7131	28272	
19.5	0.840 9093	46099	1371	0.516 0839	65543	1879	0.223 8859	28431	817
20.0	0.845 5192	45493		0.509 5296	65906		0.221 0428	28589	
20.5	0.850 0685	44883	1336	0.502 9390	66264	1899	0.218 1839	28743	826
	—			+			+		
21.0	0.854 5568	44269		0.496 3126	66616		0.215 3096	28896	
21.5	0.858 9837	43652	+1301	0.489 6510	66962	+1919	0.212 4200	29046	+835
22.0	0.863 3489	43033		0.482 9548	67306		0.209 5154	29196	
22.5	0.867 6522	42410	1265	0.476 2242	67643	1939	0.206 5958	29342	843
23.0	0.871 8932	41785		0.469 4599	67976		0.203 6616	29486	
23.5	0.876 0717	41157	1229	0.462 6623	68304	1958	0.200 7130	29629	851
24.0	0.880 1874	40526		0.455 8319	68627		0.197 7501	29769	
24.5	0.884 2400	39892	1193	0.448 9692	68946	1976	0.194 7732	29908	859
25.0	0.888 2292	39255		0.442 0746	69258		0.191 7824	30044	
25.5	0.892 1547	38616	1156	0.435 1488	69566	1993	0.188 7780	30178	867
	—			+			+		
26.0	0.896 0163	37975		0.428 1922	69870		0.185 7602	30310	
26.5	0.899 8138	37331	+1119	0.421 2052	70168	+2010	0.182 7292	30440	+875
27.0	0.903 5469	36685		0.414 1884	70463		0.179 6852	30568	
27.5	0.907 2154	36036	1082	0.407 1421	70752	2027	0.176 6284	30693	882
28.0	0.910 8190	35385		0.400 0669	71036		0.173 5591	30817	
28.5	0.914 3575	34731	1044	0.392 9633	71316	2043	0.170 4774	30939	889
29.0	0.917 8306	34075		0.385 8317	71591		0.167 3835	31059	
29.5	0.921 2381	33416	1006	0.378 6726	71862	2058	0.164 2776	31177	896
30.0	0.924 5797	32757		0.371 4864	72128		0.161 1599	31293	
30.5	0.927 8554	32093	968	0.364 2736	72390	2073	0.158 0306	31406	902
	—			+			+		
31.0	0.931 0647	31426		0.357 0346	72646		0.154 8900	31518	
31.5	0.934 2073	30759	+ 929	0.349 7700	72899	+2087	0.151 7382	31627	+908
Sept. 1.0	0.937 2832	30090		0.342 4801	73146		0.148 5755	31736	
1.5	0.940 2922	29417	890	0.335 1655	73389	2101	0.145 4019	31841	914
2.0	0.943 2339	28738		0.327 8266	73627		0.142 2178	31945	
2.5	0.946 1077	28058	851	0.320 4639	73861	2114	0.139 0233	32046	920
3.0	0.948 9135	27378		0.313 0778	74090		0.135 8187	32145	
3.5	0.951 6513	26695	812	0.305 6688	74313	2126	0.132 6042	32242	925
4.0	0.954 3208			0.298 2375			0.129 3800		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	—			+			+		
Sept. 4.0	0.954 3208	26007		0.298 2375	74532		0.129 3800	32337	
4.5	0.956 9215	25319	+773	0.290 7843	74745	+2138	0.126 1463	32430	+930
5.0	0.959 4534	24628		0.283 3098	74954		0.122 9033	32520	
5.5	0.961 9162	23934	733	0.275 8144	75157	2149	0.119 6513	32608	935
6.0	0.964 3096	23236		0.268 2987	75355		0.116 3905	32693	
6.5	0.966 6332	22537	693	0.260 7632	75548	2160	0.113 1212	32777	940
7.0	0.968 8869	21835		0.253 2084	75735		0.109 8435	32857	
7.5	0.971 0704	21132	653	0.245 6349	75917	2170	0.106 5578	32936	944
8.0	0.973 1836	20426		0.238 0432	76093		0.103 2642	33012	
8.5	0.975 2262		612	0.230 4339		2179	0.099 9630		948
	—	19718		+	76264		+	33086	
9.0	0.977 1980	19006		0.222 8075	76429		0.096 6544	33157	
9.5	0.979 0986	18294	+572	0.215 1646	76587	+2188	0.093 3387	33225	+952
10.0	0.980 9280	17581		0.207 5059	76740		0.090 0162	33291	
10.5	0.982 6861	16864	531	0.199 8319	76888	2196	0.086 6871	33355	955
11.0	0.984 3725	16145		0.192 1431	77029		0.083 3516	33416	
11.5	0.985 9870	15426	490	0.184 4402	77164	2203	0.080 0100	33474	958
12.0	0.987 5296	14705		0.176 7238	77294		0.076 6626	33530	
12.5	0.989 0001	13983	449	0.168 9944	77418	2210	0.073 3096	33583	961
13.0	0.990 3984	13258		0.161 2526	77535		0.069 9513	33634	
13.5	0.991 7242		408	0.153 4991		2216	0.066 5879		964
	—	12533		+	77646		+	33682	
14.0	0.992 9775	11808		0.145 7345	77752		0.063 2197	33728	
14.5	0.994 1583	11081	+367	0.137 9593	77851	+2221	0.059 8469	33770	+966
15.0	0.995 2664	10352		0.130 1742	77945		0.056 4699	33811	
15.5	0.996 3016	9623	325	0.122 3797	78032	2226	0.053 0888	33849	968
16.0	0.997 2639	8894		0.114 5765	78114		0.049 7039	33884	
16.5	0.998 1533	8163	284	0.106 7651	78190	2230	0.046 3155	33917	970
17.0	0.998 9696	7431		0.098 9461	78260		0.042 9238	33948	
17.5	0.999 7127	6700	242	0.091 1201	78323	2234	0.039 5290	33975	972
18.0	1.000 3827	5968		0.083 2878	78381		0.036 1315	34000	
18.5	1.000 9795		201	0.075 4497		2237	0.032 7315		973
	—	5236		+	78434		+	34023	
19.0	1.001 5031	4503		0.067 6063	78480		0.029 3292	34043	
19.5	1.001 9534	3769	+159	0.059 7583	78520	+2239	0.025 9249	34061	+974
20.0	1.002 3303	3036		0.051 9063	78554		0.022 5188	34076	
20.5	1.002 6339	2302	117	0.044 0509	78583	2240	0.019 1112	34088	975
21.0	1.002 8641	1570		0.036 1926	78606		0.015 7024	34099	
21.5	1.003 0211	836	76	0.028 3320	78623	2241	0.012 2925	34107	975
22.0	1.003 1047	101		0.020 4697	78635		0.008 8818	34112	
22.5	1.003 1148	634	+ 34	0.012 6062	78640	2241	0.005 4706	34115	975
23.0	1.003 0514			0.004 7422			0.002 0591		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X	Diff.	Red. auf 1900.0	Y	Diff.	Red. auf 1900.0	Z	Diff.	Red. auf 1900.0
	—			+			+		
Sept. 23.0	1.003 0514			0.004 7422			0.002 0591		
	—	1367		—	78640		—	34115	
23.5	1.002 9147	2099	— 8	0.003 1218	78635	+2241	0.001 3524	34113	+975
24.0	1.002 7048	2832		0.010 9853	78623		0.004 7637	34108	
24.5	1.002 4216	3564	50	0.018 8476	78607	2240	0.008 1745	34102	975
25.0	1.002 0652	4297		0.026 7083	78585		0.011 5847	34093	
25.5	1.001 6355	5030	91	0.034 5668	78557	2238	0.014 9940	34081	974
26.0	1.001 1325	5760		0.042 4225	78524		0.018 4021	34067	
26.5	1.000 5565	6492	133	0.050 2749	78486	2236	0.021 8088	34051	973
27.0	0.999 9073	7223		0.058 1235	78443		0.025 2139	34032	
27.5	0.999 1850		175	0.065 9678		2233	0.028 6171		971
	—	7953		—	78394		—	34012	
28.0	0.998 3897	8684		0.073 8072	78340		0.032 0183	33989	
28.5	0.997 5213	9414	−217	0.081 6412	78281	+2229	0.035 4172	33963	+970
29.0	0.996 5799	10145		0.089 4693	78217		0.038 8135	33936	
29.5	0.995 5654	10874	258	0.097 2910	78147	2225	0.042 2071	33905	968
30.0	0.994 4780	11604		0.105 1057	78073		0.045 5976	33873	
30.5	0.993 3176	12333	300	0.112 9130	77992	2220	0.048 9849	33839	966
Oct. 1.0	0.992 0843	13061		0.120 7122	77906		0.052 3688	33801	
1.5	0.990 7782	13791	341	0.128 5028	77815	2214	0.055 7489	33761	963
2.0	0.989 3991	14521		0.136 2843	77718		0.059 1250	33719	
2.5	0.987 9470		382	0.144 0561		2208	0.062 4969		960
	—	15250		—	77616		—	33674	
3.0	0.986 4220	15978		0.151 8177	77508		0.065 8643	33627	
3.5	0.984 8242	16706	−424	0.159 5685	77394	+2201	0.069 2270	33578	+957
4.0	0.983 1536	17434		0.167 3079	77274		0.072 5848	33525	
4.5	0.981 4102	18162	465	0.175 0353	77148	2193	0.075 9373	33471	954
5.0	0.979 5940	18890		0.182 7501	77017		0.079 2844	33413	
5.5	0.977 7050	19615	506	0.190 4518	76880	2185	0.082 6257	33353	950
6.0	0.975 7435	20340		0.198 1398	76736		0.085 9610	33290	
6.5	0.973 7095	21064	546	0.205 8134	76587	2176	0.089 2900	33225	946
7.0	0.971 6031	21789		0.213 4721	76431		0.092 6125	33158	
7.5	0.969 4242		587	0.221 1152		2166	0.095 9283		942
	—	22511		—	76270		—	33087	
8.0	0.967 1731	23232		0.228 7422	76102		0.099 2370	33014	
8.5	0.964 8499	23952	−628	0.236 3524	75927	+2156	0.102 5384	32938	+938
9.0	0.962 4547	24672		0.243 9451	75748		0.105 8322	32859	
9.5	0.959 9875	25390	668	0.251 5199	75562	2145	0.109 1181	32778	933
10.0	0.957 4485	26104		0.259 0761	75369		0.112 3959	32695	
10.5	0.954 8381	26819	708	0.266 6130	75171	2134	0.115 6654	32608	928
11.0	0.952 1562	27532		0.274 1301	74967		0.118 9262	32519	
11.5	0.949 4030	28242	748	0.281 6268	74757	2122	0.122 1781	32428	923
12.0	0.946 5788			0.289 1025			0.125 4209		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901		X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
		—			—			—		
Oct.	12.0	0.946 5788	28951		0.289 1025	74541		0.125 4209	32334	
	12.5	0.943 6837	29659	— 788	0.296 5566	74318	+2109	0.128 6543	32237	+917
	13.0	0.940 7178	30364		0.303 9884	74089		0.131 8780	32138	
	13.5	0.937 6814	31066	827	0.311 3973	73855	2095	0.135 0918	32037	911
	14.0	0.934 5748	31765		0.318 7828	73615		0.138 2955	31932	
	14.5	0.931 3983	32463	866	0.326 1443	73370	2081	0.141 4887	31826	905
	15.0	0.928 1520	33159		0.333 4813	73117		0.144 6713	31717	
	15.5	0.924 8361	33852	905	0.340 7930	72860	2066	0.147 8430	31605	899
	16.0	0.921 4509	34543		0.348 0790	72596		0.151 0035	31491	
	16.5	0.917 9966		944	0.355 3386		2051	0.154 1526		892
		—	35230		—	72328		—	31374	
	17.0	0.914 4736	35915		0.362 5714	72053		0.157 2900	31255	
	17.5	0.910 8821	36597	— 982	0.369 7767	71773	+2035	0.160 4155	31134	+885
	18.0	0.907 2224	37278		0.376 9540	71487		0.163 5289	31010	
	18.5	0.903 4946	37953	1020	0.384 1027	71196	2019	0.166 6299	30884	878
	19.0	0.899 6993	38627		0.391 2223	70899		0.169 7183	30756	
	19.5	0.895 8366	39298	1058	0.398 3122	70596	2002	0.172 7939	30625	871
	20.0	0.891 9068	39966		0.405 3718	70289		0.175 8564	30492	
	20.5	0.887 9102	40630	1095	0.412 4007	69976	1984	0.178 9056	30356	863
	21.0	0.883 8472	41291		0.419 3983	69658		0.181 9412	30219	
	21.5	0.879 7181		1132	0.426 3641		1966	0.184 9631		855
		—	41948		—	69335		—	30080	
	22.0	0.875 5233	42604		0.433 2976	69006		0.187 9711	29937	
	22.5	0.871 2629	43256	—1169	0.440 1982	68673	+1947	0.190 9648	29793	+847
	23.0	0.866 9373	43904		0.447 0655	68336		0.193 9441	29647	
	23.5	0.862 5469	44548	1205	0.453 8991	67992	1927	0.196 9088	29498	839
	24.0	0.858 0921	45191		0.460 6983	67644		0.199 8586	29348	
	24.5	0.853 5730	45828	1241	0.467 4627	67292	1907	0.202 7934	29196	830
	25.0	0.848 9902	46463		0.474 1919	66934		0.205 7130	29040	
	25.5	0.844 3439	47095	1277	0.480 8853	66572	1887	0.208 6170	28884	821
	26.0	0.839 6344	47723		0.487 5425	66206		0.211 5054	28724	
	26.5	0.834 8621		1312	0.494 1631		1866	0.214 3778		811
		—	48349		—	65835		—	28564	
	27.0	0.830 0272	48971		0.500 7466	65459		0.217 2342	28401	
	27.5	0.825 1301	49591	—1347	0.507 2925	65078	+1844	0.220 0743	28237	+802
	28.0	0.820 1710	50206		0.513 8003	64694		0.222 8980	28070	
	28.5	0.815 1504	50820	1382	0.520 2697	64305	1822	0.225 7050	27900	792
	29.0	0.810 0684	51430		0.526 7002	63911		0.228 4950	27729	
	29.5	0.804 9254	52037	1416	0.533 0913	63511	1799	0.231 2679	27556	782
	30.0	0.799 7217	52640		0.539 4424	63107		0.234 0235	27380	
	30.5	0.794 4577	53240	1449	0.545 7531	62698	1775	0.236 7615	27203	772
	31.0	0.789 1337			0.552 0229			0.239 4818		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901		*X*		Red. auf 1900.0	*Y*		Red. auf 1900.0	*Z*		Red. auf 1900.0
		—			—			—		
Oct.	31.0	0.789 1337			0.552 0229			0.239 4818		
			53838			62285			27023	
	31.5	0.783 7499		−1482	0.558 2514		+1751	0.242 1841		+762
			54432			61866			26841	
Nov.	1.0	0.778 3067			0.564 4380			0.244 8682		
			55024			61443			26657	
	1.5	0.772 8043		1515	0.570 5823		1727	0.247 5339		751
			55611			61015			26470	
	2.0	0.767 2432			0.576 6838			0.250 1809		
			56193			60581			26282	
	2.5	0.761 6239		1548	0.582 7419		1702	0.252 8091		740
			56773			60142			26092	
	3.0	0.755 9466			0.588 7561			0.255 4183		
			57350			59698			25899	
	3.5	0.750 2116		1580	0.594 7259		1676	0.258 0082		729
			57922			59250			25703	
	4.0	0.744 4194			0.600 6509			0.260 5785		
			58491			58797			25506	
	4.5	0.738 5703		1611	0.606 5306		1650	0.263 1291		718
		—	59056		—	58338		—	25307	
	5.0	0.732 6647			0.612 3644			0.265 6598		
			59616			57873			25105	
	5.5	0.726 7031		−1642	0.618 1517		+1624	0.268 1703		+707
			60172			57405			24902	
	6.0	0.720 6859			0.623 8922			0.270 6605		
			60725			56931			24696	
	6.5	0.714 6134		1672	0.629 5853		1597	0.273 1301		695
			61272			56453			24488	
	7.0	0.708 4862			0.635 2306			0.275 5789		
			61814			55969			24278	
	7.5	0.702 3048		1702	0.640 8275		1569	0.278 0067		683
			62353			55481			24066	
	8.0	0.696 0695			0.646 3756			0.280 4133		
			62886			54988			23852	
	8.5	0.689 7809		1731	0.651 8744		1541	0.282 7985		671
			63415			54490			23635	
	9.0	0.683 4394			0.657 3234			0.285 1620		
			63939			53988			23418	
	9.5	0.677 0455		1760	0.662 7222		1513	0.287 5038		658
		—	64459		—	53481		—	23198	
	10.0	0.670 5996			0.668 0703			0.289 8236		
			64973			52970			22975	
	10.5	0.664 1023		−1788	0.673 3673		+1484	0.292 1211		+646
			65482			52454			22752	
	11.0	0.657 5541			0.678 6127			0.294 3963		
			65985			51933			22526	
	11.5	0.650 9556		1816	0.683 8060		1455	0.296 6489		633
			66485			51408			22299	
	12.0	0.644 3071			0.688 9468			0.298 8788		
			66979			50879			22069	
	12.5	0.637 6092		1843	0.694 0347		1425	0.301 0857		620
			67468			50346			21838	
	13.0	0.630 8624			0.699 0693			0.303 2695		
			67949			49808			21605	
	13.5	0.624 0675		1870	0.704 0501		1395	0.305 4300		607
			68427			49267			21370	
	14.0	0.617 2248			0.708 9768			0.307 5670		
			68900			48721			21134	
	14.5	0.610 3348		1896	0.713 8489		1364	0.309 6804		594
		—	69367		—	48171		—	20896	
	15.0	0.603 3981			0.718 6660			0.311 7700		
			69829			47619			20656	
	15.5	0.596 4152		−1921	0.723 4279		+1333	0.313 8356		+580
			70284			47061			20414	
	16.0	0.589 3868			0.728 1340			0.315 8770		
			70734			46500			20172	
	16.5	0.582 3134		1946	0.732 7840		1301	0.317 8942		566
			71178			45936			19927	
	17.0	0.575 1956			0.737 3776			0.319 8869		
			71616			45367			19681	
	17.5	0.568 0340		1970	0.741 9143		1269	0.321 8550		552
			72049			44795			19433	
	18.0	0.560 8291			0.746 3938			0.323 7983		
			72477			44221			19184	
	18.5	0.553 5814		1994	0.750 8159		1237	0.325 7167		538
			72898			43642			18934	
	19.0	0.546 2916			0.755 1801			0.327 6101		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
Nov. 19.0	0.546 2916	73313		0.755 1801	43061		0.327 6101	18682	
19.5	0.538 9603	73723	−2017	0.759 4862	42476	+1204	0.329 4783	18429	+524
20.0	0.531 5880	74127		0.763 7338	41889		0.331 3212	18174	
20.5	0.524 1753	74526	2040	0.767 9227	41298	1171	0.333 1386	17918	510
21.0	0.516 7227	74918		0.772 0525	40704		0.334 9304	17661	
21.5	0.509 2309	75305	2062	0.776 1229	40108	1138	0.336 6965	17403	495
22.0	0.501 7004	75686		0.780 1337	39509		0.338 4368	17143	
22.5	0.494 1318	76062	2083	0.784 0846	38908	1104	0.340 1511	16883	481
23.0	0.486 5256	76431		0.787 9754	38303		0.341 8394	16621	
23.5	0.478 8825	76796	2103	0.791 8057	37697	1070	0.343 5015	16357	466
24.0	0.471 2029	77155		0.795 5754	37087		0.345 1372	16092	
24.5	0.463 4874	77509	−2123	0.799 2841	36474	+1036	0.346 7464	15827	+451
25.0	0.455 7365	77856		0.802 9315	35860		0.348 3291	15560	
25.5	0.447 9509	78199	2142	0.806 5175	35243	1001	0.349 8851	15293	436
26.0	0.440 1310	78537		0.810 0418	34623		0.351 4144	15024	
26.5	0.432 2773	78869	2161	0.813 5041	34000	966	0.352 9168	14753	420
27.0	0.424 3904	79195		0.816 9041	33375		0.354 3921	14481	
27.5	0.416 4709	79516	2179	0.820 2416	32748	931	0.355 8402	14209	405
28.0	0.408 5193	79832		0.823 5164	32117		0.357 2611	13934	
28.5	0.400 5361	80143	2196	0.826 7281	31483	895	0.358 6545	13659	389
29.0	0.392 5218	80447		0.829 8764	30847		0.360 0204	13383	
29.5	0.384 4771	80746	−2213	0.832 9611	30207	+ 859	0.361 3587	13106	+374
30.0	0.376 4025	81038		0.835 9818	29565		0.362 6693	12826	
30.5	0.368 2987	81326	2229	0.838 9383	28920	823	0.363 9519	12546	358
Dec. 1.0	0.360 1661	81608		0.841 8303	28273		0.365 2065	12265	
1.5	0.352 0053	81883	2244	0.844 6576	27623	787	0.366 4330	11983	342
2.0	0.343 8170	82152		0.847 4199	26970		0.367 6313	11699	
2.5	0.335 6018	82416	2258	0.850 1169	26314	750	0.368 8012	11415	326
3.0	0.327 3602	82673		0.852 7483	25656		0.369 9427	11128	
3.5	0.319 0929	82923	2272	0.855 3139	24996	713	0.371 0555	10840	310
4.0	0.310 8006	83167		0.857 8135	24332		0.372 1395	10553	
4.5	0.302 4839	83405	−2285	0.860 2467	23666	+ 676	0.373 1948	10265	+294
5.0	0.294 1434	83636		0.862 6133	22998		0.374 2213	9975	
5.5	0.285 7798	83861	2297	0.864 9131	22329	639	0.375 2188	9683	278
6.0	0.277 3937	84079		0.867 1460	21657		0.376 1871	9392	
6.5	0.268 9858	84292	2309	0.869 3117	20983	601	0.377 1263	9099	262
7.0	0.260 5566	84495		0.871 4100	20305		0.378 0362	8805	
7.5	0.252 1071	84692	2320	0.873 4405	19626	564	0.378 9167	8511	245
8.0	0.243 6379			0.875 4031			0.379 7678		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	—			—			—		
Dec. 8.0	0.243 6379	84884		0.875 4031	18946		0.379 7678	8216	
8.5	0.235 1495	85069	−2330	0.877 2977	18264	+526	0.380 5894	7920	+229
9.0	0.226 6426	85246		0.879 1241	17580		0.381 3814	7623	
9.5	0.218 1180	85417	2340	0.880 8821	16894	488	0.382 1437	7326	212
10.0	0.209 5763	85580		0.882 5715	16207		0.382 8763	7028	
10.5	0.201 0183	85737	2349	0.884 1922	15518	449	0.383 5791	6729	195
11.0	0.192 4446	85887		0.885 7440	14828		0.384 2520	6430	
11.5	0.183 8559	86030	2357	0.887 2268	14136	411	0.384 8950	6131	179
12.0	0.175 2529	86165		0.888 6404	13443		0.385 5081	5830	
12.5	0.166 6364		2364	0.889 9847		373	0.386 0911		162
	—	86293		—	12750		—	5530	
13.0	0.158 0071	86415		0.891 2597	12054		0.386 6441	5228	
13.5	0.149 3656	86530	−2370	0.892 4651	11359	+334	0.387 1669	4926	+145
14.0	0.140 7126	86637		0.893 6010	10663		0.387 6595	4625	
14.5	0.132 0489	86737	2376	0.894 6673	9965	295	0.388 1220	4323	129
15.0	0.123 3752	86830		0.895 6638	9266		0.388 5543	4020	
15.5	0.114 6922	86917	2381	0.896 5904	8568	256	0.388 9563	3718	112
16.0	0.106 0005	86995		0.897 4472	7869		0.389 3281	3414	
16.5	0.097 3010	87068	2386	0.898 2341	7170	218	0.389 6695	3112	95
17.0	0.088 5942	87132		0.898 9511	6469		0.389 9807	2809	
17.5	0.079 8810		2390	0.899 5980		179	0.390 2616		78
	—	87190		—	5769		—	2505	
18.0	0.071 1620	87241		0.900 1749	5069		0.390 5121	2202	
18.5	0.062 4379	87286	−2393	0.900 6818	4370	+140	0.390 7323	1898	+ 61
19.0	0.053 7093	87323		0.901 1188	3670		0.390 9221	1595	
19.5	0.044 9770	87353	2395	0.901 4858	2970	101	0.391 0816	1292	44
20.0	0.036 2417	87378		0.901 7828	2269		0.391 2108	988	
20.5	0.027 5039	87395	2396	0.902 0097	1570	62	0.391 3096	685	27
21.0	0.018 7644	87405		0.902 1667	871		0.391 3781	382	
21.5	0.010 0239	87410	2397	0.902 2538	173	+ 23	0.391 4163	78	+ 10
22.0	0.001 2829			0.902 2711			0.391 4241		
	+	87408		—	526		—	225	
22.5	0.007 4579		2397	0.902 2185		— 16	0.391 4016		— 7
	+	87400		—	1225		—	528	
23.0	0.016 1979	87386		0.902 0960	1922		0.391 3488	831	
23.5	0.024 9365	87364	−2396	0.901 9038	2619	— 55	0.391 2657	1133	— 24
24.0	0.033 6729	87336		0.901 6419	3316		0.391 1524	1436	
24.5	0.042 4065	87303	2394	0.901 3103	4013	94	0.391 0088	1739	41
25.0	0.051 1368	87263		0.900 9090	4710		0.390 8349	2041	
25.5	0.059 8631	87218	2392	0.900 4380	5406	133	0.390 6308	2344	58
26.0	0.068 5849	87166		0.899 8974	6102		0.390 3964	2646	
26.5	0.077 3015	87108	2389	0.899 2872	6798	172	0.390 1318	2948	75
27.0	0.086 0123			0.898 6074			0.389 8370		

Mittl. Aequator und Mittl. Aequinoctium 1901.0.

1901	X		Red. auf 1900.0	Y		Red. auf 1900.0	Z		Red. auf 1900.0
	+			—			—		
Dec. 27.0	0.086 0123	87043		0.898 6074	7493		0.389 8370	3250	
27.5	0.094 7166	86972	−2385	0.897 8581	8189	−211	0.389 5120	3552	−92
28.0	0.103 4138	86895		0.897 0392	8884		0.389 1568	3854	
28.5	0.112 1033	86810	2380	0.896 1508	9579	250	0.388 7714	4156	109
29.0	0.120 7843	86720		0.895 1929	10272		0.388 3558	4457	
29.5	0.129 4563	86623	2375	0.894 1657	10967	289	0.387 9101	4759	126
30.0	0.138 1186	86520		0.893 0690	11661		0.387 4342	5061	
30.5	0.146 7706	86410	2369	0.891 9029	12354	328	0.386 9281	5362	142
31.0	0.155 4116	86293		0.890 6675	13048		0.386 3919	5663	
31.5	0.164 0409		2362	0.889 3627		366	0.385 8256		159
	+	86169		—	13740		—	5963	
32.0	0.172 6578	86038		0.887 9887	14432		0.385 2293	6263	
32.5	0.181 2616	85900	−2355	0.886 5455	15122	−405	0.384 6030	6563	−176
33.0	0.189 8516	85756		0.885 0333	15812		0.383 9467	6862	
33.5	0.198 4272	85605	2347	0.883 4521	16501	443	0.383 2605	7162	193
34.0	0.206 9877	85447		0.881 8020	17189		0.382 5443	7460	
34.5	0.215 5324	85283	2338	0.880 0831	17875	481	0.381 7983	7759	209
35.0	0.224 0607	85111		0.878 2956	18562		0.381 0224	8056	
35.5	0.232 5718	84933	2328	0.876 4394	19247	519	0.380 2168	8353	226
36.0	0.241 0651	84748		0.874 5147	19930		0.379 3815	8649	
36.5	0.249 5399		2318	0.872 5217		557	0.378 5166		242
	+	84555		—	20611		—	8945	
37.0	0.257 9954			0.870 4606			0.377 6221		

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Jan. 1.0	3 29 20.58	29 48.54	+19 33 21.2	+0 56 28.1	8.23543	− 83	16 6.6
1.5	3 59 9.12	30 0.64	20 29 49.3	0 37 8.5	8.23460	105	16 4.8
2.0	4 29 9.76	30 3.39	21 6 57.8	+0 17 13.4	8.23355	129	16 2.4
2.5	4 59 13.15	29 56.03	21 24 11.2	−0 2 46.4	8.23226	152	15 59.6
3.0	5 29 9.18	29 38.54	21 21 24.8	0 22 20.3	8.23074	175	15 56.2
3.5	5 58 47.72	29 11.79	20 59 4.5	0 40 58.0	8.22899	195	15 52.4
4.0	6 27 59.51	28 37.39	20 18 6.5	0 58 15.8	8.22704	213	15 48.1
4.5	6 56 36.90	27 57.29	19 19 50.7	1 13 53.6	8.22491	229	15 43.5
5.0	7 24 34.19	27 13.69	18 5 57.1	1 27 39.8	8.22262	241	15 38.5
5.5	7 51 47.88	26 28.77	16 38 17.3	−1 39 28.0	8.22021	−248	15 33.3
6.0	8 18 16.65	25 44.47	+14 58 49.3	1 49 17.6	8.21773	251	15 28.0
6.5	8 44 1.12	25 2.33	13 9 31.7	1 57 12.7	8.21522	249	15 22.7
7.0	9 9 3.45	24 23.66	11 12 19.0	2 3 19.0	8.21273	243	15 17.4
7.5	9 33 27.11	23 49.43	9 9 0.0	2 7 44.7	8.21030	232	15 12.3
8.0	9 57 16.54	23 20.24	7 1 15.3	2 10 39.4	8.20798	217	15 7.4
8.5	10 20 36.78	22 56.55	4 50 35.9	2 12 10.5	8.20581	197	15 2.9
9.0	10 43 33.33	22 38.62	2 38 25.4	2 12 26.5	8.20384	174	14 58.8
9.5	11 6 11.95	22 26.52	+ 0 25 58.9	2 11 33.9	8.20210	147	14 55.2
10.0	11 28 38.47	22 20.29	− 1 45 35.0	2 9 37.7	8.20063	118	14 52.2
10.5	11 50 58.76	22 19.90	3 55 12.7	−2 6 41.6	8.19945	− 85	14 49.8
11.0	12 13 18.66	22 25.18	− 6 1 54.3	2 2 47.6	8.19860	52	14 48.0
11.5	12 35 43.84	22 35.94	8 4 41.9	1 57 56.3	8.19808	− 17	14 47.0
12.0	12 58 19.78	22 51.89	10 2 38.2	1 52 6.8	8.19791	+ 18	14 46.6
12.5	13 21 11.67	23 12.69	11 54 45.0	1 45 17.1	8.19809	54	14 47.0
13.0	13 44 24.36	23 37.76	13 40 2.1	1 37 25.1	8.19863	89	14 48.1
13.5	14 8 2.12	24 6.52	15 17 27.2	1 28 26.4	8.19952	123	14 49.9
14.0	14 32 8.64	24 38.09	16 45 53.6	1 18 18.5	8.20075	154	14 52.4
14.5	14 56 46.73	25 11.46	18 4 12.1	1 6 58.8	8.20229	183	14 55.6
15.0	15 21 58.19	25 45.44	19 11 10.9	0 54 26.0	8.20412	210	14 59.4
15.5	15 47 43.63	26 18.69	20 5 36.9	−0 40 41.4	8.20622	+232	15 3.7
16.0	16 14 2.32	26 49.76	−20 46 18.3	0 25 49.0	8.20854	250	15 8.6
16.5	16 40 52.08	27 17.25	21 12 7.3	−0 9 56.0	8.21104	264	15 13.8
17.0	17 8 9.33	27 39.94	21 22 3.3	+0 6 45.5	8.21368	273	15 19.4
17.5	17 35 49.27	27 56.81	21 15 17.8	0 24 0.5	8.21641	275	15 25.2
18.0	18 3 46.08	28 7.36	20 51 17.3	0 41 30.2	8.21916	274	15 31.1
18.5	18 31 53.44	28 11.49	20 9 47.1	0 58 53.1	8.22190	267	15 37.0
19.0	19 0 4.93	28 9.63	19 10 54.0	1 15 46.9	8.22457	253	15 42.7
19.5	19 28 14.56	28 2.69	17 55 7.1	1 31 48.3	8.22710	237	15 48.2
20.0	19 56 17.25	27 51.89	16 23 18.8	1 46 37.1	8.22947	215	15 53.4
20.5	20 24 9.14		14 36 41.7		8.23162		15 58.2

Jan. 4 13h 7m.1 Vollmond. Jan. 12 9h 31m.8 Letzt. Viert. Jan. 20 3h 29m.4 Neumond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Decl.	Bew. in 1^h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
	h m	h m s	s	s	° ′	′	h m	° ′	
Jan. 1 O	9 8.9	3 52 3	—71.70	155.42	+20 18.1	+ 4.5	3 21.4	+18 24	6.5
U	21 38.1	4 23 14	—71.88	156.33	+21 1.2	+ 2.7	3 33.3	+20 35	6.2
2 O	10 7.3	4 54 31	—71.83	156.31	+21 22.8	+ 0.9	4 22.2	+21 24	5.7
U	22 36.4	5 25 41	—71.56	155.29	+21 22.8	— 0.9	4 32.5	+20 29	5.8
3 O	11 5.2	5 56 33	—71.06	153.28	+21 1.5	— 2.6	5 21.7	+21 51	4.8
U	23 33.6	6 26 56	—70.35	150.45	+20 19.9	— 4.3	5 31.8	+21 5	3.0
4 O	12 1.3	6 56 40	—69.49	146.95	+19 19.7	— 5.8	6 6.2	+19 49	5.6
—	—	—	—	—	—	—	6 23.1	+20 16	4.0
5 U	0 28.2	7 25 39	+68.51	142.85	+18 2.8	— 7.1	7 26.1	+17 18	5.6
O	12 54.3	7 53 49	+67.49	138.67	+16 31.2	— 8.2	7 33.8	+17 54	5.2
6 U	1 19.6	8 21 10	+66.44	134.53	+14 47.2	— 9.1	8 12.7	+15 59	6.5
O	13 44.1	8 47 41	+65.44	130.55	+12 53.0	— 9.9	8 23.1	+14 32	5.9
7 U	2 7.8	9 13 26	+64.50	126.87	+10 50.8	—10.5	9 2.4	+11 4	5.0
O	14 30.8	9 38 29	+63.68	123.60	+ 8 42.6	—10.9	9 23.2	+ 9 29	5.6
8 U	2 53.2	10 2 56	+62.96	120.80	+ 6 30.0	—11.2	9 55.0	+ 8 31	5.0
O	15 15.1	10 26 52	+62.37	118.53	+ 4 14.8	—11.3	10 7.7	+ 5 6	6.0
9 U	3 36.6	10 50 24	+61.93	116.79	+ 1 58.5	—11.4	10 40.1	+ 3 1	6.5
O	15 57.9	11 13 38	+61.63	115.60	— 0 17.6	—11.3	10 50.6	+ 1 16	6.0
10 U	4 18.9	11 36 41	+61.47	114.96	— 2 32.5	—11.1	11 25.3	— 2 27	5.1
O	16 39.8	11 59 39	+61.47	114.87	— 4 44.9	—10.9	11 31.9	— 0 17	4.5
11 U	5 0.8	12 22 39	+61.60	115.32	— 6 53.7	—10.6	12 22.9	— 8 8	6.3
O	17 21.9	12 45 48	+61.87	116.28	— 8 58.1	—10.1	12 34.2	— 7 27	4.7
12 U	5 43.3	13 9 12	+62.28	117.72	—10 56.9	— 9.6	13 4.6	— 9 48	6.5
O	18 5.0	13 32 55	+62.80	119.63	—12 49.1	— 9.0	13 20.0	—10 39	1.2
13 U	6 27.1	13 57 3	+63.41	121.94	—14 33.5	— 8.3	13 59.1	—14 30	6.5
O	18 49.7	14 21 41	+64.11	124.60	—16 9.0	— 7.5	14 5.4	—15 50	5.3
14 U	7 12.8	14 46 53	+64.86	127.54	—17 34.3	— 6.6	14 46.3	—17 57	6.4
O	19 36.6	15 12 41	+65.64	130.63	—18 48.1	— 5.6	15 1.1	—15 52	5.4
15 U	8 1.0	15 39 7	+66.42	133.76	—19 49.0	— 4.5	15 36.2	—19 21	5.0
O	20 26.0	16 6 10	+67.17	136.81	—20 35.7	— 3.3	15 47.6	—19 52	5.0
16 U	8 51.6	16 33 48	+67.84	139.64	—21 6.8	— 1.9			
O	21 17.7	17 1 58	+68.43	142.08	—21 21.2	— 0.5			
17 U	9 44.3	17 30 35	+68.88	144.04	—21 17.9	+ 1.0			
O	22 11.2	17 59 32	+69.19	145.41	—20 56.0	+ 2.6			
18 U	10 38.3	18 28 42	+69.35	146.15	—20 15.4	+ 4.2			
O	23 5.5	18 57 57	+69.36	146.29	—19 16.0	+ 5.7			
19 U	11 32.7	19 27 11	+69.25	145.88	—17 58.3	+ 7.2			
O	23 59.8	19 56 17	+69.04	145.03	—16 23.3	+ 8.6			
20 U	12 26.6	20 25 11	—68.75	143.93	—14 32.5	+ 9.9			
—	—	—	—	—	—	—			

Jan. 12 0^h Apogaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Jan. 20.0	19 56 17.25	27 51.89	−16 23 18.8	+1 46 37.1	8.22947	+215	15 53.4
20.5	20 24 9.14	27 38.68	14 36 41.7	1 59 53.5	8.23162	189	15 58.2
21.0	20 51 47.82	27 24.60	12 36 48.2	2 11 21.6	8.23351	162	16 2.3
21.5	21 19 12.42	27 11.07	10 25 26.6	2 20 49.0	8.23513	132	16 5.9
22.0	21 46 23.49	26 59.44	8 4 37.6	2 28 6.6	8.23645	102	16 8.9
22.5	22 13 22.93	26 50.76	5 36 31.0	2 33 8.6	8.23747	72	16 11.2
23.0	22 40 13.69	26 45.90	3 3 22.4	2 35 51.8	8.23819	42	16 12.8
23.5	23 6 59.59	26 45.37	−0 27 30.6	2 36 15.3	8.23861	+14	16 13.7
24.0	23 33 44.96	26 49.51	+2 8 44.7	2 34 19.6	8.23875	−11	16 14.0
24.5	0 0 34.47	26 58.28	4 43 4.3	+2 30 7.8	8.23864	−35	16 13.8
25.0	0 27 32.75	27 11.31	+7 13 12.1	2 23 43.0	8.23829	55	16 13.0
25.5	0 54 44.06	27 28.03	9 36 55.1	2 15 10.1	8.23774	73	16 11.8
26.0	1 22 12.09	27 47.51	11 52 5.2	2 4 34.4	8.23701	89	16 10.1
26.5	1 49 59.60	28 8.47	13 56 39.6	1 52 4.4	8.23612	101	16 8.1
27.0	2 18 8.07	28 29.43	15 48 44.0	1 37 48.4	8.23511	113	16 5.9
27.5	2 46 37.50	28 48.67	17 26 32.4	1 21 59.9	8.23398	122	16 3.4
28.0	3 15 26.17	29 4.50	18 48 32.3	1 4 53.9	8.23276	131	16 0.7
28.5	3 44 30.67	29 15.21	19 53 26.2	0 46 48.2	8.23145	139	15 57.8
29.0	4 13 45.88	29 19.39	20 40 14.4	0 28 4.9	8.23006	146	15 54.7
29.5	4 43 5.27	29 16.17	21 8 19.3	+0 9 7.1	8.22860	−153	15 51.5
30.0	5 12 21.44	29 5.10	+21 17 26.4	−0 9 41.1	8.22707	160	15 48.2
30.5	5 41 26.54	28 46.41	21 7 45.3	0 27 55.7	8.22547	167	15 44.7
31.0	6 10 12.95	28 20.91	20 39 49.6	0 45 14.8	8.22380	173	15 41.1
31.5	6 38 33.86	27 49.85	19 54 34.8	1 1 20.0	8.22207	179	15 37.3
Febr. 1.0	7 6 23.71	27 14.76	18 53 14.8	1 15 57.0	8.22028	185	15 33.5
1.5	7 33 38.47	26 37.31	17 37 17.8	1 28 55.4	8.21843	190	15 29.5
2.0	8 0 15.78	25 59.12	16 8 22.4	1 40 9.3	8.21653	193	15 25.4
2.5	8 26 14.90	25 21.61	14 28 13.1	1 49 36.9	8.21460	195	15 21.3
3.0	8 51 36.51	24 46.04	12 38 36.2	1 57 19.2	8.21265	195	15 17.2
3.5	9 16 22.55	24 13.39	10 41 17.0	−2 3 19.4	8.21070	−192	15 13.1
4.0	9 40 35.94	23 44.50	+8 37 57.6	2 7 42.2	8.20878	187	15 9.1
4.5	10 4 20.44	23 19.84	6 30 15.4	2 10 34.0	8.20691	179	15 5.2
5.0	10 27 40.28	22 59.80	4 19 41.4	2 12 0.9	8.20512	167	15 1.4
5.5	10 50 40.08	22 44.66	+2 7 40.5	2 12 8.2	8.20345	153	14 58.0
6.0	11 13 24.74	22 34.48	−0 4 27.7	2 11 2.5	8.20192	136	14 54.8
6.5	11 35 59.22	22 29.35	2 15 30.2	2 8 48.1	8.20056	115	14 52.0
7.0	11 58 28.57	22 29.18	4 24 18.3	2 5 28.8	8.19941	92	14 49.7
7.5	12 20 57.75	22 33.89	6 29 47.1	2 1 7.5	8.19849	65	14 47.8
8.0	12 43 31.64	22 43.33	8 30 54.6	1 55 46.6	8.19784	37	14 46.5
8.5	13 6 14.97		10 26 41.2		8.19747		14 45.7

Jan. 26 22h 45.8m Erstes Viertel. Febr. 3 4h 23.4m Vollmond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
	h m	h m s	s	s	° ′	′			
Jan. 20 U	12 26.6	20 25 11	—68.75	143.93	—14 32.5	+ 9.9			
—	—	—	—	—	—	—			
21 O	0 53.2	20 53 50	—68.44	142.64	—12 27.5	+11.0			
U	13 19.6	21 22 13	—68.13	141.32	—10 10.3	+11.9			
22 O	1 45.7	21 50 22	—67.86	140.16	— 7 43.3	+12.6			
U	14 11.6	22 18 18	—67.65	139.24	— 5 8.9	+13.1			
23 O	2 37.3	22 46 5	—67.54	138.67	— 2 29.5	+13.4			
U	15 3.0	23 13 47	—67.54	138.50	+ 0 12.3	+13.5			
24 O	3 28.7	23 41 31	—67.64	138.78	+ 2 53.8	+13.4			
U	15 54.4	0 9 20	—67.85	139.51	+ 5 32.5	+13.1	h m	° ′	
25 O	4 20.4	0 37 21	—68.16	140.65	+ 8 6.0	+12.5	23 48.0	+ 1 32	6.3
U	16 46.6	1 5 38	—68.56	142.17	+10 31.9	+11.8	0 27.3	+ 6 25	5.7
26 O	5 13.2	1 34 15	—69.03	143.97	+12 47.7	+10.9	1 3.2	+ 9 23	6.5
U	17 40.2	2 3 15	—69.52	145.92	+14 51.3	+ 9.7	1 16.1	+11 1	6.5
27 O	6 7.5	2 32 38	—70.01	147.89	+16 40.5	+ 8.4	1 57.3	+13 0	6.5
U	18 35.2	3 2 24	—70.44	149.70	+18 13.6	+ 7.0	2 7.7	+14 49	6.2
28 O	7 3.3	3 32 30	—70.78	151.17	+19 28.8	+ 5.5	3 2.8	+18 25	6.5
U	19 31.6	4 2 51	—70.99	152.13	+20 25.0	+ 3.9	3 6.0	+19 21	4.5
29 O	8 0.0	4 33 19	—71.03	152.44	+21 1.1	+ 2.1	3 59.5	+21 45	6.5
U	20 28.4	5 3 46	—70.89	152.01	+21 16.7	+ 0.4	4 3.4	+19 21	5.8
30 O	8 56.7	5 34 3	—70.56	150.83	+21 12.0	— 1.2	5 2.0	+21 34	5.8
U	21 24.6	6 4 2	—70.06	148.91	+20 47.4	— 2.8	5 13.4	+22 0	5.2
31 O	9 52.1	6 33 34	—69.39	146.36	+20 3.8	— 4.4	5 58.1	+20 8	4.8
U	22 19.0	7 2 31	—68.61	143.32	+19 2.8	— 5.8	6 6.2	+19 49	5.6
Febr. 1 O	10 45.2	7 30 50	—67.74	139.96	+17 45.8	— 7.0	6 56.7	+17 54	6.2
U	23 10.8	7 58 28	—66.83	136.43	+16 14.8	— 8.1	7 12.4	+16 43	3.6
2 O	11 35.7	8 25 23	—65.92	132.90	+14 31.8	— 9.0	7 55.9	+16 44	6.4
U	23 59.9	8 51 36	—65.03	129.51	+12 38.6	— 9.8	8 3.2	+13 56	6.5
3 O	12 23.4	9 17 10	+64.20	126.22	+10 37.4	—10.4	8 53.1	+12 14	4.3
—	—	—	—	—	—	—	9 2.4	+11 4	5.0
4 U	0 46.3	9 42 8	+63.47	123.41	+ 8 29.9	—10.8	9 41.0	+ 7 10	6.0
O	13 8.7	10 6 35	+62.83	120.99	+ 6 17.9	—11.1	9 52.9	+ 8 47	6.4
5 U	1 30.7	10 30 35	+62.31	119.00	+ 4 3.1	—11.3	10 40.1	+ 3 1	6.5
O	13 52.3	10 54 14	+61.91	117.47	+ 1 47.0	—11.4	10 50.7	+ 1 16	6.0
6 U	2 13.7	11 17 37	+61.65	116.40	— 0 28.9	—11.3	11 25.3	— 2 27	5.1
O	14 34.9	11 40 50	+61.51	115.80	— 2 43.4	—11.1	11 31.9	— 0 17	4.5
7 U	2 56.0	12 3 58	+61.51	115.68	— 4 55.3	—10.8	12 1.0	— 2 35	6.4
O	15 17.1	12 27 8	+61.63	116.02	— 7 3.4	—10.5	12 18.2	— 4 25	6.5
8 U	3 38.4	12 50 24	+61.88	116.80	— 9 6.6	—10.0	12 49.2	— 9 0	5.0
O	15 59.8	13 13 52	+62.23	118.00	—11 3.9	— 9.5	13 2.7	—10 13	5.2

Jan. 24 0h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Febr. 8.0	12 43 31.64	22 43.33	− 8 30 54.6	−1 55 46.6	8.19784	− 37	14 46.5
8.5	13 6 14.97	22 57.21	10 26 41.2	1 49 26.5	8.19747	− 6	14 45.7
9.0	13 29 12.18	23 15.23	12 16 7.7	1 42 7.3	8.19741	+ 26	14 45.6
9.5	13 52 27.41	23 36.95	13 58 15.0	1 33 48.7	8.19767	60	14 46.1
10.0	14 16 4.36	24 1.87	15 32 3.7	1 24 29.1	8.19827	94	14 47.3
10.5	14 40 6.23	24 29.27	16 56 32.8	1 14 7.1	8.19921	128	14 49.3
11.0	15 4 35.50	24 58.37	18 10 39.9	1 2 42.3	8.20049	162	14 51.9
11.5	15 29 33.87	25 28.23	19 13 22.2	0 50 14.2	8.20211	195	14 55.2
12.0	15 55 2.10	25 57.85	20 3 36.4	0 36 44.1	8.20406	225	14 59.2
12.5	16 20 59.95	26 26.11	20 40 20.5	−0 22 15.6	8.20631	+254	15 3.9
13.0	16 47 26.06	26 51.95	−21 2 36.1	−0 6 53.6	8.20885	278	15 9.2
13.5	17 14 18.01	27 14.43	21 9 29.7	+0 9 12.8	8.21163	299	15 15.1
14.0	17 41 32.44	27 32.76	21 0 16.9	0 25 52.0	8.21462	315	15 21.4
14.5	18 9 5.20	27 46.48	20 34 24.9	0 42 50.1	8.21777	325	15 28.1
15.0	18 36 51.68	27 55.41	19 51 34.8	0 59 49.4	8.22102	330	15 35.1
15.5	19 4 47.09	27 59.78	18 51 45.4	1 16 30.4	8.22432	326	15 42.2
16.0	19 32 46.87	28 0.21	17 35 15.0	1 32 33.0	8.22758	317	15 49.3
16.5	20 0 47.08	27 57.49	16 2 42.0	1 47 35.5	8.23075	301	15 56.3
17.0	20 28 44.57	27 52.76	14 15 6.5	2 1 17.2	8.23376	278	16 2.9
17.5	20 56 37.33	27 47.12	12 13 49.3	+2 13 18.3	8.23654	+248	16 9.1
18.0	21 24 24.45	27 41.73	−10 0 31.0	2 23 21.1	8.23902	212	16 14.6
18.5	21 52 6.18	27 37.66	7 37 9.9	2 31 9.8	8.24114	171	16 19.4
19.0	22 19 43.84	27 35.80	5 6 0.1	2 36 33.2	8.24285	129	16 23.3
19.5	22 47 19.64	27 36.77	− 2 29 26.9	2 39 21.8	8.24414	83	16 26.2
20.0	23 14 56.41	27 41.00	+ 0 9 54.9	2 39 30.6	8.24497	+ 36	16 28.1
20.5	23 42 37.41	27 48.56	2 49 25.5	2 36 58.1	8.24533	− 9	16 28.9
21.0	0 10 25.97	27 59.23	5 26 23.6	2 31 46.5	8.24524	51	16 28.7
21.5	0 38 25.20	28 12.56	7 58 10.1	2 24 1.4	8.24473	92	16 27.5
22.0	1 6 37.76	28 27.63	10 22 11.5	2 13 51.9	8.24381	127	16 25.4
22.5	1 35 5.39	28 43.40	12 36 3.4	+2 1 30.6	8.24254	−156	16 22.6
23.0	2 3 48.79	28 58.49	+14 37 34.0	1 47 11.4	8.24098	182	16 19.0
23.5	2 32 47.28	29 11.50	16 24 45.4	1 31 14.0	8.23916	202	16 14.9
24.0	3 1 58.78	29 20.88	17 55 59.4	1 13 57.9	8.23714	217	16 10.4
24.5	3 31 19.66	29 25.35	19 9 57.3	0 55 45.1	8.23497	226	16 5.6
25.0	4 0 45.01	29 23.82	20 5 42.4	0 36 59.6	8.23271	233	16 0.6
25.5	4 30 8.83	29 15.64	20 42 42.0	+0 18 5.3	8.23038	234	15 55.4
26.0	4 59 24.47	29 0.67	21 0 47.3	−0 0 35.2	8.22804	234	15 50.3
26.5	5 28 25.14	28 39.27	21 0 12.1	0 18 40.1	8.22570	230	15 45.2
27.0	5 57 4.41	28 12.25	20 41 32.0	0 35 51.6	8.22340	226	15 40.2
27.5	6 25 16.66		20 5 40.4		8.22114		15 35.3

Febr. 11 $7^h 5^m.6$ Letzt. Viert. Febr. 18 $15^h 38^m.8$ Neumond. Febr. 25 $7^h 31^m.8$ Erst. Viert.

Im Meridian von Berlin.

Datum und Culmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Decl.	Bew. in 1^h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Gr.
		h m	h m s	s	s	° '	'	h m	° '	
Febr. 8	*U*	3 38.4	12 50 24	+61.88	116.80	− 9 6.6	−10.0	12 49.2	− 9 0	5.0
	O	15 59.8	13 13 52	+62.23	118.00	−11 3.9	− 9.5	13 2.7	−10 13	5.2
9	*U*	4 21.5	13 37 37	+62.69	119.60	−12 54.1	− 8.9	13 29.4	−12 42	5.7
	O	16 43.6	14 1 43	+63.24	121.56	−14 36.2	− 8.1	13 40.7	−11 56	6.0
10	*U*	5 6.1	14 26 14	+63.86	123.82	−16 9.2	− 7.3	14 40.5	−15 3	6.2
	O	17 29.0	14 51 14	+64.54	126.34	−17 31.8	− 6.4	14 45.2	−15 35	5.3
11	*U*	5 52.5	15 16 45	+65.25	129.02	−18 42.9	− 5.4	15 15.3	−17 48	6.0
	O	18 16.5	15 42 49	+65.97	131.78	−19 41.3	− 4.3	15 21.2	−19 39	6.5
12	*U*	6 41.1	16 9 26	+66.67	134.51	−20 25.8	− 3.1	16 13.3	−19 59	6.0
	O	19 6.3	16 36 36	+67.32	137.12	−20 55.3	− 1.8	16 18.3	−19 48	4.6
13	*U*	7 31.9	17 4 15	+67.89	139.48	−21 8.8	− 0.4	17 0.3	−21 26	6.6
	O	19 57.9	17 32 20	+68.37	141.51	−21 5.2	+ 1.0	17 15.1	−21 0	4.5
14	*U*	8 24.3	18 0 48	+68.75	143.13	−20 43.8	+ 2.5	18 1.3	−21 27	6.4
	O	20 51.0	18 29 33	+69.01	144.30	−20 4.5	+ 4.0	18 7.9	−21 5	4.1
15	*U*	9 17.9	18 58 29	+69.15	145.01	−19 6.7	+ 5.6			
	O	21 44.9	19 27 31	+69.19	145.29	−17 50.9	+ 7.1			
16	*U*	10 11.9	19 56 35	+69.14	145.22	−16 17.6	+ 8.5			
	O	22 38.9	20 25 36	+69.03	144.87	−14 27.9	+ 9.8			
17	*U*	11 5.8	20 54 32	+68.88	144.38	−12 23.4	+11.0			
	O	23 32.6	21 23 21	+68.73	143.85	−10 5.8	+12.0			
18	*U*	11 59.2	21 52 4	+68.61	143.39	− 7 37.3	+12.8			
	—	—	—	—	—	—	—			
19	*O*	0 25.8	22 20 43	−68.54	143.12	− 5 0.5	+13.4			
	U	12 52.4	22 49 20	−68.54	143.08	− 2 17.9	+13.7			
20	*O*	1 19.0	23 17 58	−68.62	143.34	+ 0 27.5	+13.8			
	U	13 45.7	23 46 42	−68.78	143.92	+ 3 12.7	+13.7			
21	*O*	2 12.5	0 15 34	−69.03	144.82	+ 5 54.8	+13.3			
	U	14 39.5	0 44 39	−69.35	146.00	+ 8 30.9	+12.7			
22	*O*	3 6.8	1 13 59	−69.73	147.37	+10 58.0	+11.8			
	U	15 34.4	1 43 37	−70.12	148.84	+13 13.6	+10.7			
23	*O*	4 2.3	2 13 32	−70.50	150.29	+15 15.4	+ 9.5	1 31.9	+11 38	5.6
	U	16 30.4	2 43 44	−70.83	151.55	+17 1.0	+ 8.1	1 54.1	+11 49	6.2
24	*O*	4 58.8	3 14 9	−71.08	152.49	+18 28.8	+ 6.5	2 38.8	+17 21	6.5
	U	17 27.3	3 44 42	−71.20	152.96	+19 37.6	+ 4.9	2 43.8	+17 3	5.6
25	*O*	5 55.9	4 15 17	−71.18	152.84	+20 26.4	+ 3.2	3 36.6	+19 23	5.4
	U	18 24.3	4 45 47	−70.98	152.08	+20 54.7	+ 1.5	3 55.4	+19 55	6.6
26	*O*	6 52.5	5 16 4	−70.62	150.65	+21 2.7	− 0.2	4 32.5	+20 29	5.8
	U	19 20.4	5 46 0	−70.09	148.60	+20 50.9	− 1.8	4 57.2	+21 27	4.7
27	*O*	7 47.8	6 15 27	−69.43	146.03	+20 20.1	− 3.3	5 48.6	+20 15	4.7
	U	20 14.7	6 44 21	−68.66	143.04	+19 31.7	− 4.7	5 58.1	+20 8	4.8

Febr. 8 20^h Apogaeum. Febr. 20 16^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ' "	° ' "			' "
Febr. 27.0	5 57 4.41	28 12.25	+20 41 32.0	−0 35 51.6	8.22340	−226	15 40.2
27.5	6 25 16.66	27 40.81	20 5 40.4	0 51 53.9	8.22114	219	15 35.3
28.0	6 52 57.47	27 6.26	19 13 46.5	1 6 35.4	8.21895	212	15 30.6
28.5	7 20 3.73	26 30.06	18 7 11.1	1 19 48.6	8.21683	205	15 26.1
März 1.0	7 46 33.79	25 53.57	16 47 22.5	1 31 28.7	8.21478	197	15 21.7
1.5	8 12 27.36	25 18.04	15 15 53.8	1 41 33.2	8.21281	188	15 17.5
2.0	8 37 45.40	24 44.46	13 34 20.6	1 50 2.6	8.21093	180	15 13.6
2.5	9 2 29.86	24 13.73	11 44 18.0	1 56 58.7	8.20913	171	15 9.8
3.0	9 26 43.59	23 46.45	9 47 19.3	2 2 23.8	8.20742	163	15 6.2
3.5	9 50 30.04	23 23.05	7 44 55.5	−2 6 21.6	8.20579	−154	15 2.8
4.0	10 13 53.09	23 3.87	+ 5 38 33.9	2 8 55.3	8.20425	143	14 59.6
4.5	10 36 56.96	22 49.09	3 29 38.6	2 10 9.4	8.20282	133	14 56.7
5.0	10 59 46.05	22 38.75	+ 1 19 29.2	2 10 6.9	8.20149	120	14 54.0
5.5	11 22 24.80	22 32.91	− 0 50 37.7	2 8 51.4	8.20029	107	14 51.5
6.0	11 44 57.71	22 31.39	2 59 29.1	2 6 25.4	8.19922	93	14 49.3
6.5	12 7 29.10	22 34.16	5 5 54.5	2 2 51.9	8.19829	75	14 47.4
7.0	12 30 3.26	22 40.98	7 8 46.4	1 58 13.3	8.19754	56	14 45.9
7.5	12 52 44.24	22 51.57	9 6 59.7	1 52 30.9	8.19698	36	14 44.7
8.0	13 15 35.81	23 5.68	10 59 30.6	1 45 46.0	8.19662	− 13	14 44.0
8.5	13 38 41.49	23 22.88	12 45 16.6	−1 38 0.5	8.19649	+ 12	14 43.7
9.0	14 2 4.37	23 42.73	−14 23 17.1	1 29 14.3	8.19661	38	14 43.9
9.5	14 25 47.10	24 4.67	15 52 31.4	1 19 29.2	8.19699	66	14 44.7
10.0	14 49 51.77	24 28.04	17 12 0.6	1 8 46.0	8.19765	96	14 46.1
10.5	15 14 19.81	24 52.27	18 20 46.6	0 57 6.3	8.19861	127	14 48.0
11.0	15 39 12.08	25 16.48	19 17 52.9	0 44 32.6	8.19988	157	14 50.6
11.5	16 4 28.56	25 39.98	20 2 25.5	0 31 8.4	8.20145	189	14 53.9
12.0	16 30 8.54	26 2.00	20 33 33.9	0 16 57.9	8.20334	219	14 57.8
12.5	16 56 10.54	26 21.92	20 50 31.8	−0 2 7.5	8.20553	249	15 2.3
13.0	17 22 32.46	26 39.16	20 52 39.3	+0 13 15.2	8.20802	276	15 7.5
13.5	17 49 11.62	26 53.43	20 39 24.1	+0 29 0.7	8.21078	+302	15 13.3
14.0	18 16 5.05	27 4.56	−20 10 23.4	0 44 57.8	8.21380	323	15 19.6
14.5	18 43 9.61	27 12.72	19 25 25.6	1 0 53.8	8.21703	340	15 26.5
15.0	19 10 22.33	27 18.27	18 24 31.8	1 16 34.8	8.22043	352	15 33.8
15.5	19 37 40.60	27 21.78	17 7 57.0	1 31 45.0	8.22395	358	15 41.4
16.0	20 5 2.38	27 24.02	15 36 12.0	1 46 7.6	8.22753	357	15 49.2
16.5	20 32 26.40	27 25.81	13 50 4.4	1 59 25.9	8.23110	348	15 57.0
17.0	20 59 52.21	27 28.03	11 50 38.5	2 11 21.2	8.23458	331	16 4.7
17.5	21 27 20.24	27 31.55	9 39 17.3	2 21 36.0	8.23789	306	16 12.1
18.0	21 54 51.79	27 37.13	7 17 41.3	2 29 51.6	8.24095	274	16 19.0
18.5	22 22 28.92		4 47 49.7		8.24369		16 25.2

März 4 $20^{h}\ 58^{m}.0$ Vollmond. März 13 $1^{h}\ 59^{m}.8$ Letztes Viertel.

Im Meridian von Berlin.

Datum und Culmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Febr. 27	O	7 47.8	6 15 27	—69.43	146.03	+20 20.1	— 3.3	5 48.6	+20 15	4.7
	U	20 14.7	6 44 21	—68.66	143.04	+19 31.7	— 4.7	5 58.1	+20 8	4.8
28	O	8 40.9	7 12 38	—67.81	139.79	+18 27.0	— 6.0	6 41.6	+18 18	6.5
	U	21 6.5	7 40 14	—66.92	136.40	+17 7.7	— 7.2	6 56.7	+17 54	6.2
März 1	O	9 31.4	8 7 10	—66.03	133.03	+15 35.7	— 8.2	7 33.8	+17 54	5.2
	U	21 55.6	8 33 26	—65.16	129.80	+13 52.5	— 9.0	7 51.4	+16 3	5.9
2	O	10 19.2	8 59 4	—64.34	126.78	+12 0.2	— 9.7	8 23.1	+14 32	5.9
	U	22 42.2	9 24 8	—63.59	124.06	+10 0.3	—10.3	8 37.8	+13 2	5.6
3	O	11 4.8	9 48 41	—62.94	121.69	+ 7 54.5	—10.7	9 23.2	+ 9 29	5.6
	U	23 26.9	10 12 49	—62.40	119.71	+ 5 44.5	—11.0	9 26.7	+10 9	5.4
4	O	11 48.6	10 36 35	—61.97	118.13	+ 3 31.7	—11.1	9 55.0	+ 8 31	5.0
—		—	—	—	—	—	—	10 7.7	+ 5 6	6.0
5	U	0 10.0	11 0 5	+61.65	116.98	+ 1 17.7	—11.2	10 50.7	+ 1 16	6.0
	O	12 31.3	11 23 24	+61.45	116.22	— 0 56.3	—11.1	10 58.6	+ 0 32	6.2
6	U	0 52.5	11 46 36	+61.38	115.92	— 3 8.8	—10.9	11 31.9	— 0 17	4.5
	O	13 13.7	12 9 47	+61.41	116.03	— 5 18.6	—10.7	12 1.0	— 2 35	6.4
7	U	1 34.9	12 33 2	+61.57	116.52	— 7 24.6	—10.3	12 34.2	— 7 27	4.7
	O	13 56.2	12 56 25	+61.83	117.37	— 9 25.6	— 9.8	12 46.3	— 9 48	6.5
8	U	2 17.8	13 20 0	+62.18	118.57	—11 20.3	— 9.3	13 21.5	—12 12	5.5
	O	14 39.6	13 43 51	+62.62	120.07	—13 7.7	— 8.6	13 29.5	—12 42	5.7
9	U	3 1.8	14 8 2	+63.13	121.83	—14 46.7	— 7.9	13 59.1	—14 30	6.5
	O	15 24.3	14 32 35	+63.69	123.81	—16 16.1	— 7.0	14 5.5	—15 50	5.3
10	U	3 47.2	14 57 32	+64.28	125.95	—17 34.9	— 6.1	15 1.1	—15 52	5.4
	O	16 10.6	15 22 56	+64.90	128.17	—18 42.0	— 5.1	15 6.3	—15 47	6.5
11	U	4 34.4	15 48 47	+65.51	130.40	—19 36.4	— 4.0	15 49.3	—19 5	6.3
	O	16 58.6	16 15 4	+66.10	132.58	—20 17.0	— 2.8	15 59.7	—19 32	2.0
12	U	5 23.3	16 41 47	+66.63	134.63	—20 43.0	— 1.5	16 36.1	—19 44	5.7
	O	17 48.4	17 8 54	+67.12	136.47	—20 53.5	— 0.2	16 49.7	—21 25	6.5
13	U	6 13.8	17 36 21	+67.52	138.06	—20 47.7	+ 1.2	17 32.8	—21 51	6.3
	O	18 39.5	18 4 5	+67.85	139.37	—20 25.3	+ 2.6	17 37.5	—21 38	5.0
14	U	7 5.4	18 32 4	+68.10	140.38	—19 45.8	+ 4.0	18 34.0	—20 10	6.5
	O	19 31.5	19 0 13	+68.27	141.09	—18 49.1	+ 5.4	18 37.1	—19 23	6.5
15	U	7 57.8	19 28 29	+68.36	141.57	—17 35.4	+ 6.8	19 31.3	—18 27	6.0
	O	20 24.1	19 56 50	+68.40	141.87	—16 5.3	+ 8.2	19 35.1	—16 31	5.5
16	U	8 50.4	20 25 13	+68.41	142.06	—14 19.4	+ 9.5			
	O	21 16.8	20 53 39	+68.42	142.23	—12 18.8	+10.6			
17	U	9 43.2	21 22 7	+68.45	142.46	—10 5.1	+11.6			
	O	22 9.7	21 50 39	+68.52	142.84	— 7 40.0	+12.5			
18	U	10 36.3	22 19 16	+68.64	143.44	— 5 5.6	+13.2			
	O	23 3.0	22 48 2	+68.83	144.32	— 2 24.5	+13.6			

März 8 13h Apogaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
März 18.0	21 54 51.79	27 37.13	− 7 17 41.3	+2 29 51.6	8.24095	+274	16 19.0
18.5	22 22 28.92	27 45.30	4 47 49.7	2 35 51.7	8.24369	234	16 25.2
19.0	22 50 14.22	27 56.46	− 2 11 58.0	2 39 20.8	8.24603	187	16 30.5
19.5	23 18 10.68	28 10.75	+ 0 27 22.8	2 40 6.2	8.24790	135	16 34.8
20.0	23 46 21.43	28 27.93	3 7 29.0	2 37 59.5	8.24925	81	16 37.9
20.5	0 14 49.36	28 47.49	5 45 28.5	2 32 56.3	8.25006	+ 23	16 39.7
21.0	0 43 36.85	29 8.46	8 18 24.8	2 24 57.3	8.25029	− 33	16 40.3
21.5	1 12 45.31	29 29.66	10 43 22.1	2 14 10.3	8.24996	87	16 39.5
22.0	1 42 14.97	29 49.50	12 57 32.4	2 0 48.6	8.24909	138	16 37.5
22.5	2 12 4.47	30 6.31	14 58 21.0	+1 45 11.1	8.24771	−184	16 34.3
23.0	2 42 10.78	30 18.24	+16 43 32.1	1 27 43.2	8.24587	223	16 30.1
23.5	3 12 29.02	30 23.79	18 11 15.3	1 8 53.4	8.24364	255	16 25.0
24.0	3 42 52.81	30 21.69	19 20 8.7	0 49 13.3	8.24109	279	16 19.3
24.5	4 13 14.50	30 11.32	20 9 22.0	0 29 15.3	8.23830	298	16 13.0
25.0	4 43 25.82	29 52.60	20 38 37.3	+0 9 28.9	8.23532	308	16 6.4
25.5	5 13 18.42	29 26.25	20 48 6.2	−0 9 37.9	8.23224	313	15 59.5
26.0	5 42 44.67	28 53.37	20 38 28.3	0 27 43.6	8.22911	312	15 52.6
26.5	6 11 38.04	28 15.60	20 10 44.7	0 44 30.3	8.22599	306	15 45.8
27.0	6 39 53.64	27 34.64	19 26 14.4	0 59 47.4	8.22293	296	15 39.2
27.5	7 7 28.28	26 52.30	18 26 27.0	−1 13 28.0	8.21997	−283	15 32.8
28.0	7 34 20.58	26 10.15	+17 12 59.0	1 25 29.6	8.21714	267	15 26.8
28.5	8 0 30.73	25 29.65	15 47 29.4	1 35 53.3	8.21447	250	15 21.1
29.0	8 26 0.38	24 51.85	14 11 36.1	1 44 41.7	8.21197	233	15 15.8
29.5	8 50 52.23	24 17.59	12 26 54.4	1 51 58.7	8.20964	213	15 10.9
30.0	9 15 9.82	23 47.53	10 34 55.7	1 57 48.7	8.20751	194	15 6.4
30.5	9 38 57.35	23 22.01	8 37 7.0	2 2 16.1	8.20557	176	15 2.4
31.0	10 2 19.36	23 1.26	6 34 50.9	2 5 25.5	8.20381	157	14 58.7
31.5	10 25 20.62	22 45.36	4 29 25.4	2 7 19.5	8.20224	139	14 55.5
April 1.0	10 48 5.98	22 34.30	2 22 5.9	2 8 1.2	8.20085	121	14 52.6
1.5	11 10 40.28	22 27.92	+ 0 14 4.7	−2 7 33.5	8.19964	−104	14 50.1
2.0	11 33 8.20	22 26.15	− 1 53 28.8	2 5 56.8	8.19860	87	14 48.0
2.5	11 55 34.35	22 28.69	3 59 25.6	2 3 13.3	8.19773	71	14 46.2
3.0	12 18 3.04	22 35.26	6 2 38.9	1 59 22.8	8.19702	54	14 44.8
3.5	12 40 38.30	22 45.56	8 2 1.7	1 54 26.8	8.19648	38	14 43.7
4.0	13 3 23.86	22 59.16	9 56 28.5	1 48 25.5	8.19610	20	14 42.9
4.5	13 26 23.02	23 15.58	11 44 54.0	1 41 19.4	8.19590	− 2	14 42.5
5.0	13 49 38.60	23 34.27	13 26 13.4	1 33 9.5	8.19588	+ 17	14 42.5
5.5	14 13 12.87	23 54.67	14 59 22.9	1 23 57.3	8.19605	36	14 42.8
6.0	14 37 7.54	24 16.04	16 23 20.2	1 13 44.9	8.19641	56	14 43.5
6.5	15 1 23.58		17 37 5.1		8.19697		14 44.7

März 20 1h 46.6m Neumond. März 26 17h 32.5m Erst. Viert. April 3 14h 13.8m Vollmond.

Im Meridian von Berlin.

Datum und Culmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Decl.	Bew. in 1^h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
März 18	U	10 36.3	22 19 16	+68.64	143.44	− 5 5.6	+13.2			
	O	23 3.0	22 48 2	+68.83	144.32	− 2 24.5	+13.6			
19	U	11 29.9	23 17 0	+69.11	145.50	+ 0 20.7	+13.8			
	O	23 57.1	23 46 14	+69.46	146.98	+ 3 6.8	+13.8			
20	U	12 24.6	0 15 48	−69.89	148.65	+ 5 50.8	+13.5			
—		—	—	—	—	—	—			
21	O	0 52.5	0 45 44	−70.36	150.56	+ 8 29.3	+12.9			
	U	13 20.8	1 16 3	−70.86	152.57	+10 59.0	+12.0			
22	O	1 49.5	1 46 46	−71.35	154.50	+13 16.8	+10.9			
	U	14 18.5	2 17 51	−71.78	156.20	+15 19.8	+ 9.5			
23	O	2 47.8	2 49 14	−72.12	157.49	+17 5.6	+ 8.0			
	U	15 17.3	3 20 49	−72.32	158.19	+18 32.1	+ 6.4			
24	O	3 46.9	3 52 28	−72.34	158.17	+19 37.8	+ 4.6			
	U	16 16.4	4 24 1	−72.16	157.34	+20 22.1	+ 2.8			
25	O	4 45.7	4 55 20	−71.79	155.68	+20 44.7	+ 1.0	4 22.9	+18 58	3.7
	U	17 14.5	5 26 14	−71.22	153.26	+20 46.2	− 0.8	4 29.9	+19 41	6.5
26	O	5 42.8	5 56 34	−70.49	150.21	+20 27.4	− 2.4	5 27.8	+20 24	6.3
	U	18 10.5	6 26 15	−69.62	146.68	+19 49.8	− 3.9	5 31.8	+21 5	3.0
27	O	6 37.4	6 55 12	−68.66	142.85	+18 55.0	− 5.2	6 23.1	+20 16	4.0
	U	19 3.5	7 23 22	−67.66	138.91	+17 44.8	− 6.4	6 26.6	+17 51	6.5
28	O	7 28.8	7 50 44	−66.65	135.01	+16 21.0	− 7.5	7 26.1	+17 18	5.6
	U	19 53.4	8 17 21	−65.67	131.29	+14 45.5	− 8.4	7 33.8	+17 54	5.2
29	O	8 17.3	8 43 15	−64.75	127.85	+13 0.1	− 9.2	8 12.7	+15 59	6.5
	U	20 40.5	9 8 29	−63.91	124.77	+11 6.6	− 9.8	8 21.3	+12 59	5.6
30	O	9 3.1	9 33 9	−63.16	122.10	+ 9 6.5	−10.2	8 53.1	+12 14	4.3
	U	21 25.3	9 57 20	−62.53	119.87	+ 7 1.4	−10.6	9 2.4	+11 4	5.0
31	O	9 47.0	10 21 7	−62.02	118.10	+ 4 52.8	−10.8	9 55.0	+ 8 31	5.0
	U	22 8.4	10 44 35	−61.63	116.79	+ 2 41.9	−11.0	10 7.7	+ 5 6	6.0
April 1	O	10 29.7	11 7 51	−61.37	115.92	+ 0 30.1	−11.0	10 40.1	+ 3 1	6.5
	U	22 50.8	11 30 59	−61.24	115.49	− 1 41.3	−10.9	10 50.7	+ 1 16	6.0
2	O	11 11.8	11 54 4	−61.23	115.49	− 3 51.1	−10.7	11 25.3	− 2 27	5.1
	U	23 32.9	12 17 12	−61.32	115.89	− 5 58.1	−10.4	11 31.9	− 0 17	4.5
3	O	11 54.2	12 40 27	−61.52	116.64	− 8 1.1	−10.1	12 18.2	− 4 25	6.5
—		—	—	—	—	—	—	12 22.9	− 8 8	6.3
4	U	0 15.6	13 3 54	+61.82	117.79	− 9 58.9	− 9.6	13 4.6	− 9 48	6.5
	O	12 37.2	13 27 35	+62.20	119.19	−11 50.3	− 9.0	13 20.0	−10 39	1.2
5	U	0 59.2	13 51 34	+62.65	120.82	−13 34.2	− 8.3	13 59.1	−14 30	6.5
	O	13 21.5	14 15 54	+63.16	122.64	−15 9.4	− 7.5	14 5.5	−15 50	5.3
6	U	1 44.2	14 40 37	+63.70	124.57	−16 34.7	− 6.7	14 40.6	−15 3	6.2
	O	14 7.2	15 5 43	+64.25	126.56	−17 49.0	− 5.7	14 45.3	−15 35	5.3

März 20 23^h Perigaeum. April 4 19^h Apogaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
April 6.0	14 37 7.54	24 16.04	−16 23 20.2	−1 13 44.9	8.19641	+ 56	14 43.5
6.5	15 1 23.58	24 37.70	17 37 5.1	1 2 34.5	8.19697	78	14 44.7
7.0	15 26 1.28	24 58.84	18 39 39.6	0 50 31.0	8.19775	101	14 46.3
7.5	15 51 0.12	25 18.85	19 30 10.6	0 37 39.1	8.19876	126	14 48.3
8.0	16 16 18.97	25 36.96	20 7 49.7	0 24 5.1	8.20002	150	14 50.9
8.5	16 41 55.93	25 52.75	20 31 54.8	−0 19 55.1	8.20152	175	14 54.0
9.0	17 7 48.68	26 5.78	20 41 49.9	+0 4 41.4	8.20327	202	14 57.6
9.5	17 33 54.46	26 15.87	20 37 8.5	0 19 35.8	8.20529	227	15 1.8
10.0	18 0 10.33	26 23.14	20 17 32.7	0 34 38.5	8.20756	253	15 6.5
10.5	18 26 33.47		19 42 54.2		8.21009		15 11.8
		26 27.79		+0 49 38.9		+276	
11.0	18 53 1.26	26 30.38	−18 53 15.3	1 4 26.6	8.21285	298	15 17.6
11.5	19 19 31.64	26 31.61	17 48 48.7	1 18 51.1	8.21583	318	15 23.9
12.0	19 46 3.25	26 32.23	16 29 57.6	1 32 40.6	8.21901	334	15 30.7
12.5	20 12 35.48	26 33.14	14 57 17.0	1 45 44.3	8.22235	344	15 37.9
13.0	20 39 8.62	26 35.24	13 11 32.7	1 57 49.6	8.22579	351	15 45.4
13.5	21 5 43.86	26 39.42	11 13 43.1	2 8 43.4	8.22930	350	15 53.1
14.0	21 32 23.28	26 46.43	9 4 59.7	2 18 12.4	8.23280	343	16 0.8
14.5	21 59 9.71	26 56.95	6 46 47.3	2 26 1.5	8.23623	328	16 8.4
15.0	22 26 6.66	27 11.43	4 20 45.8	2 31 55.2	8.23951	304	16 15.7
15.5	22 53 18.09		− 1 48 50.6		8.24255		16 22.6
		27 30.15		+2 35 37.0		+273	
16.0	23 20 48.24	27 53.06	+ 0 46 46.4	2 36 51.2	8.24528	235	16 28.8
16.5	23 48 41.30	28 19.77	3 23 37.6	2 35 23.7	8.24763	188	16 34.2
17.0	0 17 1.07	28 49.58	5 59 1.3	2 31 3.7	8.24951	136	16 38.5
17.5	0 45 50.65	29 21.25	8 30 5.0	2 23 43.6	8.25087	79	16 41.6
18.0	1 15 11.90	29 53.20	10 53 48.6	2 13 23.6	8.25166	+ 20	16 43.4
18.5	1 45 5.10	30 23.32	13 7 12.2	2 0 10.4	8.25186	− 41	16 43.9
19.0	2 15 28.42	30 49.30	15 7 22.6	1 44 20.0	8.25145	99	16 42.9
19.5	2 46 17.72	31 8.83	16 51 42.6	1 26 16.9	8.25046	155	16 40.6
20.0	3 17 26.55	31 19.57	18 17 59.5	1 6 33.4	8.24891	206	16 37.1
20.5	3 48 46.12		19 24 32.9		8.24685		16 32.4
		31 20.09		+0 45 46.8		−250	
21.0	4 20 6.21	31 9.43	+20 10 19.7	0 24 37.6	8.24435	286	16 26.7
21.5	4 51 15.64	30 47.76	20 34 57.3	+0 3 44.1	8.24149	315	16 20.2
22.0	5 22 3.40	30 16.14	20 38 41.4	−0 16 18.2	8.23834	336	16 13.1
22.5	5 52 19.54	29 36.39	20 22 23.2	0 35 1.6	8.23498	348	16 5.6
23.0	6 21 55.93	28 50.75	19 47 21.6	0 52 6.3	8.23150	353	15 57.9
23.5	6 50 46.68	28 1.70	18 55 15.3	1 7 20.0	8.22797	352	15 50.1
24.0	7 18 48.38	27 11.53	17 47 55.3	1 20 38.1	8.22445	343	15 42.5
24.5	7 45 59.91	26 22.32	16 27 17.2	1 32 1.5	8.22102	330	15 35.1
25.0	8 12 22.23	25 35.70	14 55 15.7	1 41 34.2	8.21772	314	15 28.0
25.5	8 37 57.93		13 13 41.5		8.21458		15 21.3

April 11 $16^h 50^m.7$ Letzt. Viert. April 18 $10^h 31^m.0$ Neumond. April 25 $5^h 8^m.5$ Erst. Viert.

Im Meridian von Berlin.

Datum und Culmination			Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Decl.	Bew. in 1^h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
			h m	h m s	s	s	° '	'	h m	° '	
April	6	*U*	1 44.2	14 40 37	+63.70	124.57	−16 34.7	− 6.7	14 40.6	−15 3	6.2
		O	14 7.2	15 5 43	+64.25	126.56	−17 49.0	− 5.7	14 45.3	−15 35	5.3
	7	*U*	2 30.7	15 31 13	+64.80	128.54	−18 51.3	− 4.7	15 33.3	−18 59	5.7
		O	14 54.6	15 57 7	+65.32	130.42	−19 40.5	− 3.5	15 36.3	−19 21	5.0
	8	*U*	3 18.8	16 23 22	+65.80	132.13	−20 15.8	− 2.3	16 26.3	−21 15	4.7
		O	15 43.3	16 49 56	+66.22	133.63	−20 36.5	− 1.1	16 34.8	−20 13	6.5
	9	*U*	4 8.1	17 16 47	+66.58	134.88	−20 41.9	+ 0.2	17 18.8	−21 21	6.5
		O	16 33.2	17 43 51	+66.85	135.85	−20 31.5	+ 1.5	17 29.4	−21 59	6.5
	10	*U*	4 58.4	18 11 6	+67.06	136.54	−20 5.0	+ 2.9	18 9.4	−20 25	6.2
		O	17 23.7	18 38 27	+67.18	136.98	−19 22.4	+ 4.2	18 19.5	−20 36	4.9
	11	*U*	5 49.0	19 5 52	+67.26	137.22	−18 23.8	+ 5.5	19 4.0	−19 58	6.5
		O	18 14.4	19 33 19	+67.29	137.32	−17 9.6	+ 6.8	19 11.9	−19 8	4.9
	12	*U*	6 39.9	20 0 47	+67.30	137.37	−15 40.2	+ 8.1	19 52.4	−15 45	5.0
		O	19 5.3	20 28 16	+67.31	137.46	−13 56.3	+ 9.2	20 15.2	−15 6	6.7
	13	*U*	7 30.8	20 55 47	+67.35	137.68	−11 59.1	+10.3	20 47.7	−11 57	6.5
		O	19 56.3	21 23 21	+67.43	138.10	− 9 49.7	+11.3	21 4.2	−11 46	4.6
	14	*U*	8 22.0	21 51 2	+67.58	138.80	− 7 29.6	+12.1	21 41.0	− 9 44	6.2
		O	20 47.8	22 18 54	+67.81	139.86	− 5 0.4	+12.7	21 58.1	− 7 0	5.6
	15	*U*	9 13.8	22 47 0	+68.14	141.32	− 2 24.3	+13.2			
		O	21 40.2	23 15 26	+68.57	143.19	+ 0 16.4	+13.5			
	16	*U*	10 7.0	23 44 17	+69.11	145.45	+ 2 59.0	+13.6			
		O	22 34.3	0 13 37	+69.73	148.08	+ 5 40.7	+13.4			
	17	*U*	11 2.2	0 43 30	+70.41	150.96	+ 8 18.2	+12.9			
		O	23 30.6	1 13 59	+71.13	153.97	+10 48.1	+12.1			
	18	*U*	11 59.6	1 45 4	−71.83	156.82	+13 7.1	+11.0			
	—		—	—	—	—	—	—			
	19	*O*	0 29.2	2 16 43	−72.47	159.49	+15 11.9	+ 9.7			
		U	12 59.3	2 48 51	−72.99	161.65	+16 59.5	+ 8.2			
	20	*O*	1 29.7	3 21 20	−73.33	163.05	+18 27.4	+ 6.4			
		U	14 0.3	3 54 0	−73.45	163.47	+19 33.7	+ 4.6			
	21	*O*	2 30.9	4 26 39	−73.32	162.81	+20 17.3	+ 2.7			
		U	15 1.3	4 59 3	−72.94	161.05	+20 37.8	+ 0.8			
	22	*O*	3 31.2	5 31 0	−72.31	158.29	+20 35.9	− 1.1			
		U	16 0.4	6 2 18	−71.47	154.67	+20 12.7	− 2.8			
	23	*O*	4 28.9	6 32 48	−70.48	150.45	+19 29.8	− 4.3	5 58.1	+20 8	4.8
		U	16 56.5	7 2 25	−69.37	145.89	+18 29.3	− 5.7	6 6.2	+19 49	5.6
	24	*O*	5 23.1	7 31 7	−68.22	141.21	+17 13.3	− 6.9	6 41.6	+18 18	6.5
		U	17 48.8	7 58 53	−67.08	136.63	+15 44.0	− 7.9	6 56.7	+17 54	6.2
	25	*O*	6 13.7	8 25 45	−65.98	132.31	+14 3.6	− 8.8	7 55.9	+16 44	6.4
		U	18 37.7	8 51 47	−64.95	128.37	+12 14.1	− 9.5	8 3.2	+13 56	6.5

April 18 10^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
April 25.0	8 12 22.23	25 35.70	+14 55 15.7	−1 41 34.2	8.21772	−314	15 28.0
25.5	8 37 57.93	24 52.93	13 13 41.5	1 49 23.9	8.21458	293	15 21.3
26.0	9 2 50.86	24 14.84	11 24 17.6	1 55 37.4	8.21165	269	15 15.1
26.5	9 27 5.70	23 42.05	9 28 40.2	2 0 23.2	8.20896	245	15 9.5
27.0	9 50 47.75	23 14.83	7 28 17.0	2 3 48.6	8.20651	219	15 4.3
27.5	10 14 2.58	22 53.36	5 24 28.4	2 5 59.4	8.20432	192	14 59.8
28.0	10 36 55.94	22 37.53	3 18 29.0	2 7 0.4	8.20240	166	14 55.8
28.5	10 59 33.47	22 27.28	+ 1 11 28.6	2 6 55.3	8.20074	140	14 52.4
29.0	11 22 0.75	22 22.37	− 0 55 26.7	2 5 46.4	8.19934	115	14 49.5
29.5	11 44 23.12	22 22.55	3 1 13.1	−2 3 34.5	8.19819	− 91	14 47.2
30.0	12 6 45.67	22 27.48	− 5 4 47.6	2 0 20.7	8.19728	67	14 45.3
30.5	12 29 13.15	22 36.74	7 5 8.3	1 56 4.2	8.19661	46	14 44.0
Mai 1.0	12 51 49.89	22 49.93	9 1 12.5	1 50 44.0	8.19615	25	14 43.0
1.5	13 14 39.82	23 6.42	10 51 56.5	1 44 20.0	8.19590	− 5	14 42.5
2.0	13 37 46.24	23 25.66	12 36 16.5	1 36 50.8	8.19585	+ 14	14 42.4
2.5	14 1 11.90	23 46.91	14 13 7.3	1 28 17.2	8.19599	32	14 42.7
3.0	14 24 58.81	24 9.33	15 41 24.5	1 18 39.1	8.19631	49	14 43.3
3.5	14 49 8.14	24 32.12	17 0 3.6	1 7 59.6	8.19680	65	14 44.3
4.0	15 13 40.26	24 54.31	18 8 3.2	0 56 20.7	8.19745	83	14 45.7
4.5	15 38 34.57	25 15.05	19 4 23.9	−0 43 49.1	8.19828	+ 98	14 47.4
5.0	16 3 49.62	25 33.47	−19 48 13.0	0 30 30.4	8.19926	115	14 49.4
5.5	16 29 23.09	25 48.89	20 18 43.4	0 16 33.6	8.20041	133	14 51.7
6.0	16 55 11.98	26 0.78	20 35 17.0	−0 2 8.6	8.20174	149	14 54.4
6.5	17 21 12.76	26 8.93	20 37 25.6	+0 12 34.0	8.20323	167	14 57.5
7.0	17 47 21.69	26 13.34	20 24 51.6	0 27 23.2	8.20490	185	15 1.0
7.5	18 13 35.03	26 14.32	19 57 28.4	0 42 6.3	8.20675	203	15 4.8
8.0	18 39 49.35	26 12.43	19 15 22.1	0 56 32.9	8.20878	221	15 9.1
8.5	19 6 1.78	26 8.56	18 18 49.2	1 10 32.2	8.21099	239	15 13.7
9.0	19 32 10.34	26 3.53	17 8 17.0	1 23 54.5	8.21338	256	15 18.8
9.5	19 58 13.87	25 58.48	15 44 22.5	+1 36 29.8	8.21594	+271	15 24.2
10.0	20 24 12.35	25 54.44	−14 7 52.7	1 48 10.8	8.21865	284	15 30.0
10.5	20 50 6.79	25 52.46	12 19 41.9	1 58 48.6	8.22149	296	15 36.1
11.0	21 15 59.25	25 53.44	10 20 53.3	2 8 14.3	8.22445	303	15 42.5
11.5	21 41 52.69	25 58.28	8 12 39.0	2 16 19.0	8.22748	306	15 49.1
12.0	22 7 50.97	26 7.66	5 56 20.0	2 22 53.4	8.23054	304	15 55.8
12.5	22 33 58.63	26 22.05	3 33 26.6	2 27 45.4	8.23358	298	16 2.5
13.0	23 0 20.68	26 41.79	− 1 5 41.2	2 30 43.2	8.23656	283	16 9.1
13.5	23 27 2.47	27 6.90	+ 1 25 2.0	2 31 33.6	8.23939	263	16 15.5
14.0	23 54 9.37	27 37.06	3 56 35.6	2 30 3.1	8.24202	236	16 21.4
14.5	0 21 46.43		6 26 38.7		8.24438		16 26.7

Mai 3 7h 12.5m Vollmond. Mai 11 3h 31.6m Letztes Viertel.

Im Meridian von Berlin.

Datum und Culmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1ʰ Länge	Decl.	Bew. in 1ʰ Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
April 25	O	6 13.7	8 25 45	—65.98	132.31	+14 3.6	— 8.8	7 55.9	+16 44	6.4
	U	18 37.7	8 51 47	—64.95	128.37	+12 14.1	— 9.5	8 3.2	+13 56	6.5
26	O	7 0.9	9 17 5	—64.02	124.89	+10 17.4	—10.0	8 53.1	+12 14	4.3
	U	19 23.5	9 41 45	—63.21	121.93	+ 8 15.0	—10.4	9 2.4	+11 4	5.0
27	O	7 45.6	10 5 53	—62.54	119.50	+ 6 8.5	—10.7	9 41.0	+ 7 10	6.0
	U	20 7.3	10 29 34	—62.00	117.60	+ 3 59.4	—10.8	9 48.6	+ 6 25	6.5
28	O	8 28.7	10 52 56	—61.61	116.24	+ 1 48.8	—10.9	10 17.9	+ 7 3	6.5
	U	20 49.8	11 16 6	—61.35	115.40	— 0 22.0	—10.9	10 40.1	+ 3 1	6.5
29	O	9 10.8	11 39 8	—61.23	115.07	— 2 31.8	—10.8	11 8.7	+ 0 28	5.5
	U	21 31.8	12 2 9	—61.23	115.21	— 4 39.6	—10.5	11 18.3	+ 0 41	6.2
30	O	9 52.9	12 25 14	—61.36	115.78	— 6 44.2	—10.2	12 1.0	— 2 35	6.4
	U	22 14.1	12 48 29	—61.60	116.73	— 8 44.5	— 9.8	12 18.2	— 4 25	6.5
Mai 1	O	10 35.5	13 11 58	—61.93	118.05	—10 39.3	— 9.3	12 46.3	— 9 48	6.5
	U	22 57.2	13 35 45	—62.35	119.66	—12 27.5	— 8.7	12 49.3	— 9 0	5.0
2	O	11 19.3	13 59 52	—62.83	121.51	—14 7.9	— 8.0	13 29.5	—12 42	5.7
	U	23 41.8	14 24 22	—63.36	123.52	—15 39.3	— 7.2	13 40.7	—11 56	6.0
3	O	12 4.7	14 49 17	+63.91	125.69	—17 0.5	— 6.3	14 13.8	—12 55	4.6
—		—	—	—	—	—	—	14 40.6	—15 3	6.2
4	U	0 28.0	15 14 38	+64.46	127.77	—18 10.5	— 5.3	15 15.3	—17 48	6.0
	O	12 51.7	15 40 23	+64.98	129.75	—19 8.0	— 4.2	15 21.2	—19 39	6.5
5	U	1 15.8	16 6 30	+65.47	131.55	—19 52.1	— 3.1	16 6.3	—19 12	4.5
	O	13 40.2	16 32 58	+65.89	133.08	—20 21.9	— 1.9	16 11.3	—19 51	6.5
6	U	2 4.9	16 59 42	+66.23	134.29	—20 36.7	— 0.6	17 0.3	—21 26	6.6
	O	14 29.8	17 26 39	+66.49	135.14	—20 36.0	+ 0.7	17 15.1	—21 0	4.5
7	U	2 54.9	17 53 44	+66.65	135.64	—20 19.6	+ 2.0	17 56.8	—20 44	6.5
	O	15 20.0	18 20 52	+66.72	135.79	—19 47.3	+ 3.3	18 1.3	—21 27	6.4
8	U	3 45.1	18 48 1	+66.72	135.65	—18 59.2	+ 4.6	18 43.8	—20 26	5.5
	O	16 10.1	19 15 7	+66.67	135.31	—17 55.9	+ 5.9	18 57.3	—19 23	5.9
9	U	4 35.1	19 42 8	+66.58	134.85	—16 37.8	+ 7.1	19 38.0	—15 42	5.5
	O	17 0.0	20 9 4	+66.48	134.37	—15 5.7	+ 8.2	19 52.4	—15 45	5.0
10	U	5 24.8	20 35 54	+66.39	133.99	—13 20.5	+ 9.3	20 48.7	—14 4	6.2
	O	17 49.5	21 2 40	+66.35	133.80	—11 23.3	+10.3	20 45.3	—12 55	6.3
11	U	6 14.2	21 29 26	+66.37	133.90	— 9 15.3	+11.1	21 32.5	— 8 18	4.8
	O	18 39.0	21 56 15	+66.49	134.37	— 6 58.0	+11.8	21 39.8	— 9 32	5.2
12	U	7 3.9	22 23 12	+66.71	135.27	— 4 32.9	+12.4	22 26.2	— 3 25	6.3
	O	19 29.1	22 50 23	+67.04	136.67	— 2 1.8	+12.8	22 32.7	— 4 44	5.5
13	U	7 54.6	23 17 54	+67.50	138.58	+ 0 33.4	+13.0	23 21.9	+ 0 43	5.0
	O	20 20.5	23 45 50	+68.08	141.01	+ 3 10.4	+13.1	23 31.4	+ 1 33	5.6
14	U	8 46.9	0 14 19	+68.78	143.93	+ 5 46.7	+12.9			
	O	21 13.9	0 43 25	+69.57	147.25	+ 8 19.5	+12.5			

Mai 1 21ʰ Apogaeum.

Mittlerer Mittag und Mitternacht.

Datum		AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Mai	14.0	23 54 9.37	27 37.06	+ 3 56 35.6	+2 30 3.1	8.24202	+236	16 21.4
	14.5	0 21 46.43	28 11.57	6 26 38.7	2 25 58.9	8.24438	200	16 26.7
	15.0	0 49 58.00	28 49.37	8 52 37.6	2 19 10.8	8.24638	160	16 31.3
	15.5	1 18 47.37	29 28.69	11 11 48.4	2 9 32.3	8.24798	114	16 35.0
	16.0	1 48 16.06	30 7.44	13 21 20.7	1 57 3.9	8.24912	62	16 37.6
	16.5	2 18 23.50	30 43.00	15 18 24.6	1 41 53.3	8.24974	+ 8	16 39.0
	17.0	2 49 6.50	31 12.54	17 0 17.9	1 24 18.1	8.24982	− 48	16 39.2
	17.5	3 20 19.04	31 33.28	18 24 36.0	1 4 45.5	8.24934	103	16 38.1
	18.0	3 51 52.32	31 42.94	19 29 21.5	0 43 50.6	8.24831	156	16 35.7
	18.5	4 23 35.26	31 40.05	20 13 12.1	+0 22 15.3	8.24675	−204	16 32.1
	19.0	4 55 15.31	31 24.14	+20 35 27.4	+0 0 43.1	8.24471	247	16 27.5
	19.5	5 26 39.45	30 56.10	20 36 10.5	−0 20 5.1	8.24224	284	16 21.9
	20.0	5 57 35.55	30 17.68	20 16 5.4	0 39 34.2	8.23940	313	16 15.5
	20.5	6 27 53.23	29 31.41	19 36 31.2	0 57 18.4	8.23627	334	16 8.5
	21.0	6 57 24.64	28 40.11	18 39 12.8	1 13 0.1	8.23293	348	16 1.1
	21.5	7 26 4.75	27 46.60	17 26 12.7	1 26 32.1	8.22945	353	15 53.4
	22.0	7 53 51.35	26 53.37	15 59 40.6	1 37 54.0	8.22592	352	15 45.7
	22.5	8 20 44.72	26 2.46	14 21 46.6	1 47 11.0	8.22240	344	15 38.0
	23.0	8 46 47.18	25 15.44	12 34 35.6	1 54 32.2	8.21896	331	15 30.6
	23.5	9 12 2.62	24 33.39	10 40 3.4	−2 0 7.5	8.21565	−312	15 23.6
	24.0	9 36 36.01	23 57.05	+ 8 39 55.9	2 4 7.8	8.21253	290	15 17.0
	24.5	10 0 33.06	23 26.72	6 35 48.1	2 6 42.7	8.20963	264	15 10.9
	25.0	10 23 59.78	23 2.70	4 29 5.4	2 8 1.1	8.20699	236	15 5.3
	25.5	10 47 2.48	22 44.88	2 21 4.3	2 8 9.6	8.20463	206	15 0.4
	26.0	11 9 47.36	22 33.14	+ 0 12 54.7	2 7 13.6	8.20257	176	14 56.2
	26.5	11 32 20.50	22 27.35	− 1 54 18.9	2 5 17.0	8.20081	144	14 52.6
	27.0	11 54 47.85	22 27.12	3 59 35.9	2 2 21.8	8.19937	114	14 49.6
	27.5	12 17 14.97	22 32.15	6 1 57.7	1 58 28.2	8.19823	84	14 47.3
	28.0	12 39 47.12	22 42.02	8 0 25.9	1 53 36.5	8.19739	55	14 45.5
	28.5	13 2 29.14	22 56.16	9 54 2.4	−1 47 45.4	8.19684	− 27	14 44.4
	29.0	13 25 25.30	23 14.10	−11 41 47.8	1 40 53.3	8.19657	− 1	14 43.9
	29.5	13 48 39.40	23 34.98	13 22 41.1	1 32 58.9	8.19656	+ 24	14 43.9
	30.0	14 12 14.38	23 58.12	14 55 40.0	1 24 0.8	8.19680	45	14 44.4
	30.5	14 36 12.50	24 22.55	16 19 40.8	1 13 59.0	8.19725	66	14 45.3
	31.0	15 0 35.05	24 47.21	17 33 39.8	1 2 55.0	8.19791	85	14 46.6
	31.5	15 25 22.26	25 11.13	18 36 34.8	0 50 51.6	8.19876	101	14 48.3
Juni	1.0	15 50 33.39	25 33.15	19 27 26.4	0 37 53.4	8.19977	116	14 50.4
	1.5	16 16 6.54	25 52.30	20 5 19.8	0 24 8.2	8.20093	130	14 52.8
	2.0	16 41 58.84	26 7.77	20 29 28.0	−0 9 45.5	8.20223	142	14 55.5
	2.5	17 8 6.61		20 39 13.5		8.20365		14 58.4

Mai 17 $18^h\ 31^m.2$ Neumond. Mai 24 $18^h\ 33^m.2$ Erst. Viert. Juni 1 $22^h\ 46^m.3$ Vollmond.

Im Meridian von Berlin.

Datum und Culmination			Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
			h m	h m s	s	s	° ′	′			
Mai	14	U	8 46.9	0 14 19	+68.78	143.93	+ 5 46.7	+12.9			
		O	21 13.9	0 43 25	+69.57	147.25	+ 8 19.5	+12.5			
	15	U	9 41.7	1 13 12	+70.42	150.86	+10 45.7	+11.8			
		O	22 10.2	1 43 44	+71.29	154.56	+13 2.3	+10.9			
	16	U	10 39.4	2 14 59	+72.12	158.13	+15 6.0	+ 9.7			
		O	23 9.3	2 46 55	+72.86	161.29	+16 53.7	+ 8.2			
	17	U	11 39.7	3 19 26	+73.43	163.73	+18 22.5	+ 6.5			
		—	—	—	—	—	—	—			
	18	O	0 10.5	3 52 20	−73.78	165.15	+19 30.2	+ 4.7			
		U	12 41.6	4 25 25	−73.85	165.46	+20 15.1	+ 2.8			
	19	O	1 12.6	4 58 26	−73.63	164.49	+20 36.5	+ 0.8			
		U	13 43.2	5 31 7	−73.13	162.28	+20 34.6	− 1.1			
	20	O	2 13.3	6 3 15	−72.37	158.96	+20 10.2	− 2.9			
		U	14 42.6	6 34 37	−71.40	154.80	+19 25.1	− 4.6			
	21	O	3 11.0	7 5 6	−70.29	150.08	+18 21.3	− 6.0			
		U	15 38.5	7 34 36	−69.10	145.10	+17 1.3	− 7.3	h m	° ′	
	22	O	4 4.9	8 3 6	−67.88	140.11	+15 27.6	− 8.3	7 33.8	+17 54	5.2
		U	16 30.4	8 30 37	−66.69	135.34	+13 42.5	− 9.2	7 51.4	+16 3	5.9
	23	O	4 55.0	8 57 13	−65.58	130.93	+11 48.5	− 9.8	8 23.1	+14 32	5.9
		U	17 18.7	9 22 59	−64.58	127.01	+ 9 47.5	−10.3	8 37.8	+13 2	5.6
	24	O	5 41.7	9 48 2	−63.70	123.64	+ 7 41.4	−10.7	9 23.2	+ 9 29	5.6
		U	18 4.1	10 12 28	−62.96	120.85	+ 5 32.0	−10.9	9 26.7	+10 9	5.4
	25	O	6 26.0	10 36 24	−62.37	118.65	+ 3 20.5	−11.0	10 7.7	+ 5 6	6.0
		U	18 47.5	10 59 57	−61.93	117.04	+ 1 8.5	−11.0	10 17.9	+ 7 3	6.5
	26	O	7 8.8	11 23 14	−61.63	116.00	− 1 3.0	−10.9	10 58.6	+ 0 32	6.2
		U	19 29.9	11 46 23	−61.47	115.52	− 3 12.9	−10.7	11 1.9	+ 2 30	5.7
	27	O	7 51.0	12 9 29	−61.47	115.57	− 5 20.0	−10.4	11 31.9	− 0 17	4.5
		U	20 12.1	12 32 38	−61.59	116.09	− 7 23.4	−10.1	12 1.0	− 2 35	6.4
	28	O	8 33.4	12 55 57	−61.82	117.06	− 9 22.0	− 9.6	12 22.9	− 8 8	6.3
		U	20 54.9	13 19 30	−62.16	118.42	−11 14.7	− 9.1	12 34.2	− 7 27	4.7
	29	O	9 16.7	13 43 21	−62.59	120.14	−13 0.5	− 8.5	13 20.0	−10 39	1.2
		U	21 38.9	14 7 35	−63.09	122.13	−14 38.1	− 7.8	13 29.5	−12 42	5.7
	30	O	10 1.5	14 32 14	−63.65	124.30	−16 6.5	− 7.0	14 5.5	−15 50	5.3
		U	22 24.6	14 57 20	−64.22	126.56	−17 24.5	− 6.0	14 13.8	−12 55	4.6
	31	O	10 48.1	15 22 53	−64.79	128.82	−18 30.8	− 5.0	15 1.2	−15 52	5.4
		U	23 12.0	15 48 52	−65.33	130.97	−19 24.4	− 3.9	15 6.4	−15 47	6.5
Juni	1	O	11 36.4	16 15 16	−65.82	132.90	−20 4.3	− 2.7	15 49.3	−19 5	6.3
		—	—	—	—	—	—	—	15 59.7	−19 32	2.0
	2	U	0 1.1	16 42 1	+66.22	134.58	−20 29.5	− 1.5	16 36.1	−19 44	5.7
		O	12 26.1	17 9 4	+66.54	135.81	−20 39.3	− 0.2	16 49.7	−21 25	6.5

Mai 16 20^h Perigaeum. Mai 29 6^h Apogaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Juni 2.0	16 41 58.84	26 7.77	−20 29 28.0	−0 9 45.5	8.20223	+142	14 55.5
2.5	17 8 6.61	26 18.92	20 39 13.5	+0 5 3.0	8.20365	152	14 58.4
3.0	17 34 25.53	26 25.48	20 34 10.5	0 20 5.0	8.20517	163	15 1.5
3.5	18 0 51.01	26 27.46	20 14 5.5	0 35 6.1	8.20680	172	15 4.9
4.0	18 27 18.47	26 25.29	19 38 59.4	0 49 52.7	8.20852	181	15 8.5
4.5	18 53 43.76	26 19.65	18 49 6.7	1 4 11.5	8.21033	189	15 12.3
5.0	19 20 3.41	26 11.49	17 44 55.2	1 17 50.1	8.21222	197	15 16.3
5.5	19 46 14.90	26 1.92	16 27 5.1	1 30 37.5	8.21419	205	15 20.5
6.0	20 12 16.82	25 52.14	14 56 27.6	1 42 24.9	8.21624	212	15 24.8
6.5	20 38 8.96	25 43.39	13 14 2.7	+1 53 4.1	8.21836	+218	15 29.3
7.0	21 3 52.35	25 36.75	−11 20 58.6	2 2 28.2	8.22054	225	15 34.0
7.5	21 29 29.10	25 33.24	9 18 30.4	2 10 31.1	8.22279	229	15 38.9
8.0	21 55 2.34	25 33.81	7 7 59.3	2 17 6.9	8.22508	232	15 43.8
8.5	22 20 36.15	25 39.13	4 50 52.4	2 22 9.5	8.22740	232	15 48.9
9.0	22 46 15.28	25 49.75	2 28 42.9	2 25 31.4	8.22972	230	15 54.0
9.5	23 12 5.03	26 6.05	− 0 3 11.5	2 27 6.0	8.23202	225	15 59.1
10.0	23 38 11.08	26 28.04	+ 2 23 54.5	2 26 43.9	8.23427	216	16 4.0
10.5	0 4 39.12	26 55.61	4 50 38.4	2 24 16.3	8.23643	202	16 8.8
11.0	0 31 34.73	27 28.16	7 14 54.7	2 19 33.9	8.23845	184	16 13.4
11.5	0 59 2.89	28 4.74	9 34 28.6	+2 12 28.6	8.24029	+161	16 17.5
12.0	1 27 7.63	28 43.96	+11 46 57.2	2 2 54.6	8.24190	133	16 21.1
12.5	1 55 51.59	29 23.84	13 49 51.8	1 50 49.2	8.24323	100	16 24.1
13.0	2 25 15.43	30 2.02	15 40 41.0	1 36 17.5	8.24423	62	16 26.4
13.5	2 55 17.45	30 35.81	17 16 58.5	1 19 30.4	8.24485	+ 21	16 27.8
14.0	3 25 53.26	31 2.40	18 36 28.9	1 0 48.0	8.24506	− 22	16 28.3
14.5	3 56 55.66	31 19.26	19 37 16.9	0 40 38.1	8.24484	66	16 27.8
15.0	4 28 14.92	31 24.48	20 17 55.0	+0 19 37.2	8.24418	111	16 26.3
15.5	4 59 39.40	31 17.09	20 37 32.2	−0 1 35.6	8.24307	155	16 23.8
16.0	5 30 56.49	30 57.29	20 35 56.6	0 22 19.9	8.24152	195	16 20.3
16.5	6 1 53.78	30 26.26	20 13 36.7	−0 41 58.1	8.23957	−230	16 15.9
17.0	6 32 20.04	29 46.17	+19 31 38.6	1 0 1.2	8.23727	261	16 10.7
17.5	7 2 6.21	28 59.64	18 31 37.4	1 16 5.9	8.23466	287	16 4.9
18.0	7 31 5.85	28 9.36	17 15 31.5	1 30 0.8	8.23179	306	15 58.5
18.5	7 59 15.21	27 18.04	15 45 30.7	1 41 40.6	8.22873	317	15 51.8
19.0	8 26 33.25	26 27.86	14 3 50.1	1 51 7.9	8.22556	323	15 44.9
19.5	8 53 1.11	25 40.63	12 12 42.2	1 58 29.2	8.22233	321	15 37.9
20.0	9 18 41.74	24 57.71	10 14 13.0	2 3 55.1	8.21912	314	15 31.0
20.5	9 43 39.45	24 19.94	8 10 17.9	2 7 36.0	8.21598	301	15 24.3
21.0	10 7 59.39	23 47.97	6 2 41.9	2 9 43.6	8.21297	283	15 17.9
21.5	10 31 47.36		3 52 58.3		8.21014		15 11.9

Juni 9 10ʰ 53ᵐ.5 Letztes Viertel. Juni 16 2ʰ 26ᵐ.5 Neumond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Gr.
	h m	h m s	s	s	° '	'	h m	° '	
Juni 2 U	0 1.1	16 42 1	+66.22	134.58	−20 29.5	− 1.5	16 36.1	−19 44	5.7
O	12 26.1	17 9 4	+66.54	135.81	−20 39.3	− 0.2	16 49.7	−21 25	6.5
3 U	0 51.3	17 36 18	+66.75	136.60	−20 33.2	+ 1.2	17 37.6	−21 38	5.0
O	13 16.6	18 3 40	+66.86	136.94	−20 11.0	+ 2.5	17 50.2	−18 47	6.5
4 U	1 42.0	18 31 3	+66.86	136.87	−19 32.8	+ 3.8	18 29.5	−20 55	6.5
O	14 7.3	18 58 23	+66.78	136.43	−18 38.8	+ 5.1	18 34.1	−20 10	6.5
5 U	2 32.5	19 25 37	+66.63	135.73	−17 29.6	+ 6.4	19 31.4	−18 27	6.0
O	14 57.5	19 52 41	+66.44	134.87	−16 5.9	+ 7.6	19 35.1	−16 31	5.5
6 U	3 22.3	20 19 34	+66.24	133.95	−14 28.8	+ 8.6	20 15.5	−15 6	3.4
O	15 47.0	20 46 16	+66.06	133.11	−12 39.5	+ 9.6	20 25.6	−15 23	6.2
7 U	4 11.6	21 12 50	+65.92	132.46	−10 39.2	+10.5	21 9.0	−11 1	6.5
O	16 36.0	21 39 17	+65.85	132.10	− 8 29.4	+11.2	21 17.7	− 9 44	6.4
8 U	5 0.3	22 5 42	+65.87	132.12	− 6 11.5	+11.8	22 7.6	− 5 13	6.3
O	17 24.7	22 32 9	+66.01	132.58	− 3 47.3	+12.2	22 12.0	− 5 53	5.9
9 U	5 49.3	22 58 45	+66.26	133.56	− 1 18.4	+12.5	22 53.2	− 2 55	6.3
O	18 14.1	23 25 36	+66.65	135.08	+ 1 13.2	+12.7	22 55.6	− 0 21	6.5
10 U	6 39.3	23 52 49	+67.16	137.15	+ 3 45.4	+12.7	23 41.4	+ 2 56	5.2
O	19 4.9	0 20 29	+67.81	139.76	+ 6 16.2	+12.4	23 46.9	+ 2 23	5.9
11 U	7 31.1	0 48 43	+68.56	142.85	+ 8 43.1	+12.0	0 43.6	+ 7 3	4.6
O	19 57.9	1 17 37	+69.39	146.31	+11 3.4	+11.3	0 57.8	+ 7 21	4.5
12 U	8 25.5	1 47 14	+70.27	150.02	+13 14.4	+10.4	1 31.9	+11 38	5.6
O	20 53.8	2 17 36	+71.14	153.75	+15 13.3	+ 9.3	1 54.2	+11 49	6.2
13 U	9 22.9	2 48 41	+71.96	157.26	+16 57.3	+ 8.0			
O	21 52.6	3 20 26	+72.65	160.27	+18 23.7	+ 6.4			
14 U	10 22.8	3 52 43	+73.14	162.48	+19 30.2	+ 4.6			
O	22 53.4	4 25 21	+73.40	163.65	+20 15.0	+ 2.8			
15 U	11 24.1	4 58 6	+73.38	163.61	+20 37.1	+ 0.9			
O	23 54.6	5 30 43	+73.08	162.31	+20 36.1	− 1.1			
16 U	12 24.8	6 2 57	−72.51	159.97	+20 12.5	− 2.9			
—	—	—	—	—	—	—			
17 O	0 54.4	6 34 36	−71.71	156.55	+19 27.7	− 4.6			
U	13 23.3	7 5 30	−70.72	152.40	+18 23.6	− 6.1			
18 O	1 51.2	7 35 30	−69.62	147.78	+17 2.5	− 7.4			
U	14 18.2	8 4 34	−68.47	142.99	+15 26.8	− 8.5			
19 O	2 44.3	8 32 40	−67.31	138.27	+13 39.2	− 9.4			
U	15 9.4	8 59 51	−66.20	133.80	+11 42.1	−10.1			
20 O	3 33.7	9 26 11	−65.19	129.73	+ 9 37.9	−10.6			
U	15 57.2	9 51 45	−64.28	126.14	+ 7 28.6	−10.9			
21 O	4 20.1	10 16 39	−63.50	123.11	+ 5 16.0	−11.1	9 55.0	+ 8 31	5.0
U	16 42.5	10 41 0	−62.87	120.66	+ 3 1.8	−11.2	10 7.7	+ 5 6	6.0

Juni 14 0^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum		AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Juni	21.0	10 7 59.39	23 47.97	+ 6 2 41.9	−2 9 43.6	8.21297	−283	15 17.9
	21.5	10 31 47.36	23 22.05	3 52 58.3	2 10 27.5	8.21014	261	15 11.9
	22.0	10 55 9.41	23 2.31	+ 1 42 30.8	2 9 57.2	8.20753	234	15 6.5
	22.5	11 18 11.72	22 48.71	− 0 27 26.4	2 8 19.0	8.20519	206	15 1.6
	23.0	11 41 0.43	22 41.08	2 35 45.4	2 5 39.3	8.20313	175	14 57.3
	23.5	12 3 41.51	22 39.19	4 41 24.7	2 2 1.2	8.20138	142	14 53.7
	24.0	12 26 20.70	22 42.75	6 43 25.9	1 57 26.7	8.19996	110	14 50.8
	24.5	12 49 3.45	22 51.41	8 40 52.6	1 51 56.8	8.19886	76	14 48.5
	25.0	13 11 54.86	23 4.59	10 32 49.4	1 45 31.1	8.19810	42	14 47.0
	25.5	13 34 59.45	23 21.84	12 18 20.5	−1 38 8.3	8.19768	− 11	14 46.1
	26.0	13 58 21.29	23 42.50	−13 56 28.8	1 29 47.3	8.19757	+ 20	14 45.9
	26.5	14 22 3.79	24 5.67	15 26 16.1	1 20 26.2	8.19777	49	14 46.3
	27.0	14 46 9.46	24 30.56	16 46 42.3	1 10 5.0	8.19826	77	14 47.3
	27.5	15 10 40.02	24 56.05	17 56 47.3	0 58 43.1	8.19903	101	14 48.9
	28.0	15 35 36.07	25 21.07	18 55 30.4	0 46 23.3	8.20004	122	14 51.0
	28.5	16 0 57.14	25 44.52	19 41 53.7	0 33 9.1	8.20126	142	14 53.5
	29.0	16 26 41.66	26 5.26	20 15 2.8	0 19 7.7	8.20268	158	14 56.4
	29.5	16 52 46.92	26 22.39	20 34 10.5	−0 4 27.5	8.20426	172	14 59.7
	30.0	17 19 9.31	26 35.13	20 38 38.0	+0 10 39.5	8.20598	182	15 3.2
	30.5	17 45 44.44	26 43.07	20 27 58.5	+0 25 59.9	8.20780	+189	15 7.0
Juli	1.0	18 12 27.51	26 46.20	−20 1 58.6	0 41 19.1	8.20969	195	15 11.0
	1.5	18 39 13.71	26 44.73	19 20 39.5	0 56 21.0	8.21164	197	15 15.1
	2.0	19 5 58.44	26 39.34	18 24 18.5	1 10 50.1	8.21361	197	15 19.2
	2.5	19 32 37.78	26 30.94	17 13 28.4	1 24 32.3	8.21558	196	15 23.4
	3.0	19 59 8.72	26 20.65	15 48 56.1	1 37 14.2	8.21754	193	15 27.6
	3.5	20 25 29.37	26 9.66	14 11 41.9	1 48 44.6	8.21947	189	15 31.7
	4.0	20 51 39.03	25 59.24	12 22 57.3	1 58 53.8	8.22136	183	15 35.8
	4.5	21 17 38.27	25 50.46	10 24 3.5	2 7 34.3	8.22319	178	15 39.8
	5.0	21 43 28.73	25 44.46	8 16 29.2	2 14 40.3	8.22497	172	15 43.6
	5.5	22 9 13.19	25 42.13	6 1 48.9	+2 20 5.7	8.22669	+164	15 47.3
	6.0	22 34 55.32	25 44.12	− 3 41 43.2	2 23 46.7	8.22833	157	15 50.9
	6.5	23 0 39.44	25 51.03	− 1 17 56.5	2 25 39.7	8.22990	150	15 54.4
	7.0	23 26 30.47	26 3.15	+ 1 7 43.2	2 25 39.4	8.23140	141	15 57.7
	7.5	23 52 33.62	26 20.57	3 33 22.6	2 23 42.4	8.23281	132	16 0.8
	8.0	0 18 54.19	26 43.09	5 57 5.0	2 19 44.3	8.23413	121	16 3.7
	8.5	0 45 37.28	27 10.20	8 16 49.3	2 13 40.7	8.23534	108	16 6.4
	9.0	1 12 47.48	27 41.07	10 30 30.0	2 5 29.1	8.23642	94	16 8.8
	9.5	1 40 28.55	28 14.45	12 35 59.1	1 55 7.3	8.23736	78	16 10.9
	10.0	2 8 43.00	28 48.68	14 31 6.4	1 42 36.8	8.23814	59	16 12.7
	10.5	2 37 31.68		16 13 43.2		8.23873		16 14.0

Juni 23 9ʰ 52ᵐ.5 Erst. Viert. Juli 1 12ʰ 11ᵐ.2 Vollmond. Juli 8 16ʰ 13ᵐ.5 Letzt. Viert.

Im Meridian von Berlin.

Datum und Culmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Juni 21	O	4 20.1	10 16 39	—63.50	123.11	+ 5 16.0	—11.1	9 55.0	+ 8 31	5.0
	U	16 42.5	10 41 0	—62.87	120.66	+ 3 1.8	—11.2	10 7.7	+ 5 6	6.0
22	O	5 4.4	11 4 56	—62.39	118.79	+ 0 47.5	—11.2	10 40.1	+ 3 1	6.5
	U	17 25.9	11 28 33	—62.05	117.50	— 1 25.8	—11.0	10 50.6	+ 1 16	6.0
23	O	5 47.3	11 51 58	—61.86	116.78	— 3 36.8	—10.8	11 25.3	— 2 27	5.1
	U	18 8.6	12 15 17	—61.81	116.60	— 5 44.4	—10.5	11 31.9	— 0 17	4.5
24	O	6 29.9	12 38 38	—61.90	116.93	— 7 47.7	—10.1	12 18.2	— 4 25	6.5
	U	18 51.4	13 2 6	—62.11	117.73	— 9 45.6	— 9.6	12 22.9	— 8 8	6.3
25	O	7 13.0	13 25 46	—62.43	118.96	—11 37.1	— 9.0	12 49.2	— 9 0	5.0
	U	19 34.9	13 49 43	—62.84	120.58	—13 21.3	— 8.3	13 2.8	—10 13	5.2
26	O	7 57.2	14 14 2	—63.33	122.50	—14 57.0	— 7.6	13 40.7	—11 56	6.0
	U	20 19.9	14 38 45	—63.88	124.66	—16 23.2	— 6.8	13 59.1	—14 30	6.5
27	O	8 43.0	15 3 55	—64.45	126.97	—17 38.7	— 5.8	14 40.6	—15 3	6.2
	U	21 6.6	15 29 33	—65.04	129.32	—18 42.4	— 4.8	14 45.5	—15 38	3.0
28	O	9 30.7	15 55 39	—65.60	131.61	—19 33.3	— 3.7	15 27.0	—19 20	5.4
	U	21 55.2	16 22 12	—66.11	133.72	—20 10.3	— 2.5	15 33.3	—18 59	5.7
29	O	10 20.1	16 49 9	—66.54	135.54	—20 32.4	— 1.2	16 21.3	—18 14	5.0
	U	22 45.3	17 16 25	—66.88	136.99	—20 38.8	+ 0.1	16 26.3	—21 15	4.7
30	O	11 10.8	17 43 55	—67.12	138.00	—20 29.2	+ 1.5	17 15.1	—21 0	4.5
	U	23 36.4	18 11 35	—67.25	138.54	—20 3.1	+ 2.9	17 18.9	—21 21	6.5
Juli 1	O	12 2.1	18 39 18	—67.25	138.62	—19 20.5	+ 4.2	18 7.9	—21 5	4.1
—		—	—	—	—	—	—	18 15.6	—18 54	var.
2	U	0 27.8	19 7 0	+67.17	138.27	—18 21.8	+ 5.5	19 4.0	—19 58	6.5
	O	12 53.3	19 34 36	+67.01	137.60	—17 7.7	+ 6.8	19 11.9	—19 8	4.9
3	U	1 18.7	20 2 2	+66.80	136.69	—15 38.9	+ 8.0	19 52.4	—15 45	5.0
	O	13 43.9	20 29 17	+66.56	135.68	—13 56.7	+ 9.1	20 15.3	—15 6	6.7
4	U	2 8.9	20 56 19	+66.33	134.68	—12 2.4	+10.0	20 47.7	—11 57	6.5
	O	14 33.7	21 23 10	+66.14	133.81	— 9 57.5	+10.8	21 4.3	—11 46	4.6
5	U	2 58.4	21 49 52	+66.01	133.18	— 7 43.7	+11.5	21 41.0	— 9 44	6.2
	O	15 22.9	22 16 28	+65.96	132.88	— 5 22.8	+12.0	21 58.1	— 7 0	5.6
6	U	3 47.5	22 43 3	+66.01	132.99	— 2 56.6	+12.4	22 32.7	— 4 44	5.5
	O	16 12.1	23 9 42	+66.18	133.57	— 0 27.1	+12.6	22 53.2	— 2 55	6.3
7	U	4 36.9	23 36 30	+66.47	134.63	+ 2 3.8	+12.6	23 37.0	+ 1 14	4.7
	O	17 1.9	0 3 34	+66.88	136.20	+ 4 34.0	+12.4	23 41.4	+ 2 56	5.2
8	U	5 27.3	0 31 0	+67.42	138.28	+ 7 1.2	+12.1	0 27.3	+ 6 25	5.7
	O	17 53.1	0 58 53	+68.05	140.80	+ 9 23.3	+11.6	0 43.2	+ 6 46	6.0
9	U	6 19.5	1 27 19	+68.77	143.69	+11 37.8	+10.8	1 16.1	+11 1	6.5
	O	18 46.5	1 56 21	+69.53	146.82	+13 42.4	+ 9.9	1 31.9	+11 38	5.6
10	U	7 14.1	2 26 1	+70.30	150.02	+15 34.6	+ 8.8	2 27.5	+14 36	6.5
	O	19 42.4	2 56 19	+71.02	153.10	+17 12.1	+ 7.4	2 38.8	+17 21	6.5

Juni 25 22h Apogaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Juli 10.0	2 8 43.00	28 48.68	+14 31 6.4	+1 42 36.8	8.23814	+ 59	16 12.7
10.5	2 37 31.68	29 21.75	16 13 43.2	1 28 3.9	8.23873	38	16 14.0
11.0	3 6 53.43	29 51.44	17 41 47.1	1 11 38.3	8.23911	+ 14	16 14.8
11.5	3 36 44.87	30 15.40	18 53 25.4	0 53 37.2	8.23925	− 12	16 15.1
12.0	4 7 0.27	30 31.45	19 47 2.6	0 34 24.1	8.23913	40	16 14.9
12.5	4 37 31.72	30 37.96	20 21 26.7	+0 14 26.9	8.23873	70	16 14.0
13.0	5 8 9.68	30 33.95	20 35 53.6	−0 5 41.4	8.23803	100	16 12.4
13.5	5 38 43.63	30 19.25	20 30 12.2	0 25 27.7	8.23703	131	16 10.2
14.0	6 9 2.88	29 54.78	20 4 44.5	0 44 19.8	8.23572	159	16 7.3
14.5	6 38 57.66	29 22.01	19 20 24.7	−1 1 49.7	8.23413	−187	16 3.7
15.0	7 8 19.67	28 42.99	+18 18 35.0	1 17 35.9	8.23226	212	15 59.6
15.5	7 37 2.66	27 59.97	17 0 59.1	1 31 23.9	8.23014	234	15 54.9
16.0	8 5 2.63	27 15.20	15 29 35.2	1 43 5.3	8.22780	251	15 49.8
16.5	8 32 17.83	26 30.68	13 46 29.9	1 52 38.6	8.22529	264	15 44.3
17.0	8 58 48.51	25 48.11	11 53 51.3	2 0 7.1	8.22265	271	15 38.6
17.5	9 24 36.62	25 8.80	9 53 44.2	2 5 37.7	8.21994	274	15 32.7
18.0	9 49 45.42	24 33.71	7 48 6.5	2 9 18.4	8.21720	272	15 26.9
18.5	10 14 19.13	24 3.50	5 38 48.1	2 11 19.9	8.21448	263	15 21.1
19.0	10 38 22.63	23 38.58	3 27 28.2	2 11 50.8	8.21185	251	15 15.5
19.5	11 2 1.21	23 19.15	+ 1 15 37.4	−2 11 1.0	8.20934	−234	15 10.3
20.0	11 25 20.36	23 5.29	− 0 55 23.6	2 8 58.0	8.20700	213	15 5.4
20.5	11 48 25.65	22 56.91	3 4 21.6	2 5 48.4	8.20487	188	15 0.9
21.0	12 11 22.56	22 53.87	5 10 10.0	2 1 37.7	8.20299	160	14 57.0
21.5	12 34 16.43	22 55.94	7 11 47.7	1 56 28.9	8.20139	129	14 53.7
22.0	12 57 12.37	23 2.79	9 8 16.6	1 50 24.5	8.20010	97	14 51.1
22.5	13 20 15.16	23 14.08	10 58 41.1	1 43 26.3	8.19913	63	14 49.1
23.0	13 43 29.24	23 29.28	12 42 7.4	1 35 34.0	8.19850	− 29	14 47.8
23.5	14 6 58.52	23 47.82	14 17 41.4	1 26 46.9	8.19821	+ 5	14 47.2
24.0	14 30 46.34	24 9.10	15 44 28.3	1 17 5.2	8.19826	39	14 47.3
24.5	14 54 55.44	24 32.21	17 1 33.5	−1 6 28.1	8.19865	+ 72	14 48.1
25.0	15 19 27.65	24 56.32	−18 8 1.6	0 54 56.1	8.19937	103	14 49.6
25.5	15 44 23.97	25 20.43	19 2 57.7	0 42 30.5	8.20040	133	14 51.7
26.0	16 9 44.40	25 43.57	19 45 28.2	0 29 14.7	8.20173	159	14 54.4
26.5	16 35 27.97	26 4.67	20 14 42.9	0 15 13.4	8.20332	183	14 57.7
27.0	17 1 32.64	26 22.93	20 29 56.3	−0 0 34.6	8.20515	203	15 1.5
27.5	17 27 55.57	26 37.52	20 30 30.9	+0 14 32.1	8.20718	219	15 5.7
28.0	17 54 33.09	26 48.02	20 15 58.8	0 29 54.1	8.20937	231	15 10.3
28.5	18 21 21.11	26 54.22	19 46 4.7	0 45 18.1	8.21168	239	15 15.2
29.0	18 48 15.33	26 56.26	19 0 46.6	1 0 28.2	8.21407	244	15 20.2
29.5	19 15 11.59		18 0 18.4		8.21651		15 25.4

Juli 15 11h 4.1m Neumond. Juli 23 2h 51.8m Erstes Viertel.

Im Meridian von Berlin.

Datum und Culmination			Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
			h m	h m s	s	s	° ′	′	h m	° ′	
Juli	10	U	7 14.1	2 26 1	+70.30	150.02	+15 34.6	+ 8.8	2 27.5	+14 36	6.5
		O	19 42.4	2 56 19	+71.02	153.10	+17 12.1	+ 7.4	2 38.8	+17 21	6.5
	11	U	8 11.2	3 27 13	+71.65	155.81	+18 32.6	+ 5.9	3 21.4	+18 25	6.5
		O	20 40.5	3 58 36	+72.13	157.93	+19 34.1	+ 4.3	3 36.6	+19 23	5.4
	12	U	9 10.2	4 30 19	+72.41	159.23	+20 15.1	+ 2.5			
		O	21 40.0	5 2 12	+72.46	159.54	+20 34.7	+ 0.7			
	13	U	10 9.8	5 34 4	+72.26	158.81	+20 32.4	— 1.1			
		O	22 39.4	6 5 40	+71.83	157.05	+20 8.6	— 2.9			
	14	U	11 8.5	6 36 50	+71.18	154.38	+19 24.2	— 4.5			
		O	23 37.0	7 7 24	+70.36	150.98	+18 20.8	— 6.0			
	15	U	12 4.8	7 37 14	—69.40	147.27	+17 0.4	— 7.4			
			—	—	—	—	—	—			
	16	O	0 31.8	8 6 16	—68.38	143.15	+15 25.3	— 8.5			
		U	12 58.0	8 34 28	—67.35	138.97	+13 37.8	— 9.4			
	17	O	1 23.3	9 1 50	—66.35	134.94	+11 40.3	—10.1			
		U	13 47.8	9 28 25	—65.41	131.16	+ 9 35.2	—10.7			
	18	O	2 11.7	9 54 17	—64.56	127.78	+ 7 24.7	—11.1			
		U	14 34.9	10 19 32	—63.82	124.86	+ 5 10.7	—11.3			
	19	O	2 57.6	10 44 16	—63.20	122.43	+ 2 54.9	—11.3			
		U	15 19.8	11 8 31	—62.73	120.51	+ 0 39.1	—11.3			
	20	O	3 41.7	11 32 28	—62.38	119.13	— 1 35.4	—11.1			
		U	16 3.4	11 56 12	—62.18	118.27	— 3 47.3	—10.8			
	21	O	4 25.0	12 19 48	—62.11	117.91	— 5 55.5	—10.5	11 46.0	— 4 47	5.7
		U	16 46.6	12 43 23	—62.16	118.03	— 7 58.8	—10.1	12 1.0	— 2 35	6.4
	22	O	5 8.2	13 7 3	—62.34	118.62	— 9 56.3	— 9.5	12 34.2	— 7 27	4.7
		U	17 30.0	13 30 52	—62.62	119.62	—11 47.0	— 8.9	12 46.3	— 9 48	6.5
	23	O	5 52.0	13 54 56	—62.99	120.99	—13 29.9	— 8.2	13 29.5	—12 42	5.7
		U	18 14.3	14 19 18	—63.44	122.69	—15 4.0	— 7.5	13 40.7	—11 56	6.0
	24	O	6 37.1	14 44 3	—63.95	124.65	—16 28.2	— 6.6	14 5.5	—15 50	5.3
		U	19 0.2	15 9 12	—64.51	126.79	—17 41.7	— 5.6	14 13.8	—12 55	4.6
	25	O	7 23.7	15 34 47	—65.06	129.01	—18 43.3	— 4.6	15 6.6	—19 25	4.9
		U	19 47.7	16 0 49	—65.61	131.23	—19 32.0	— 3.5	15 15.3	—17 48	6.0
	26	O	8 12.1	16 27 17	—66.12	133.35	—20 6.9	— 2.3	15 59.7	—19 32	2.0
		U	20 37.0	16 54 10	—66.58	135.27	—20 27.1	— 1.1	16 6.3	—19 12	4.5
	27	O	9 2.2	17 21 23	—66.96	136.90	—20 31.8	+ 0.3	16 56.1	—18 44	6.5
		U	21 27.6	17 48 54	—67.24	138.15	—20 20.3	+ 1.6	16 59.0	—20 21	6.5
	28	O	9 53.3	18 16 38	—67.43	139.01	—19 52.4	+ 3.0	17 37.6	—21 38	5.0
		U	22 19.1	18 44 29	—67.51	139.46	—19 8.0	+ 4.4	17 50.2	—18 47	6.5
	29	O	10 45.0	19 12 23	—67.50	139.52	—18 7.3	+ 5.7	18 43.9	—20 26	5.5
		U	23 10.8	19 40 16	—67.41	139.24	—16 50.8	+ 7.0	18 57.3	—19 23	5.9

Juli 11 13^h Perigaeum. Juli 23 16^h Apogaeum.

Mittlerer Mittag und Mitternacht.

Datum		AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Juli	29.0	18 48 15.33	26 56.26	−19 0 46.6	+1 0 28.2	8.21407	+244	15 20.2
	29.5	19 15 11.59	26 54.62	18 0 18.4	1 15 9.0	8.21651	242	15 25.4
	30.0	19 42 6.21	26 49.95	16 45 9.4	1 29 3.4	8.21893	237	15 30.6
	30.5	20 8 56.16	26 43.31	15 16 6.0	1 41 57.1	8.22130	229	15 35.7
	31.0	20 35 39.47	26 35.62	13 34 8.9	1 53 35.6	8.22359	217	15 40.6
	31.5	21 2 15.09	26 28.06	11 40 33.3	2 3 46.2	8.22576	201	15 45.3
Aug.	1.0	21 28 43.15	26 21.63	9 36 47.1	2 12 18.6	8.22777	184	15 49.7
	1.5	21 55 4.78	26 17.34	7 24 28.5	2 19 3.0	8.22961	164	15 53.7
	2.0	22 21 22.12	26 15.99	5 5 25.5	2 23 53.7	8.23125	143	15 57.3
	2.5	22 47 38.11	26 18.20	2 41 31.8	+2 26 44.0	8.23268	+122	16 0.5
	3.0	23 13 56.31	26 24.47	−0 14 47.8	2 27 30.5	8.23390	100	16 3.2
	3.5	23 40 20.78	26 35.00	+2 12 42.7	2 26 10.7	8.23490	79	16 5.4
	4.0	0 6 55.78	26 49.75	4 38 53.4	2 22 42.6	8.23569	59	16 7.2
	4.5	0 33 45.53	27 8.43	7 1 36.0	2 17 6.7	8.23628	40	16 8.5
	5.0	1 0 53.96	27 30.51	9 18 42.7	2 9 23.4	8.23668	21	16 9.4
	5.5	1 28 24.47	27 55.04	11 28 6.1	1 59 35.6	8.23689	+ 4	16 9.9
	6.0	1 56 19.51	28 20.85	13 27 41.7	1 47 48.6	8.23693	− 12	16 10.0
	6.5	2 24 40.36	28 46.44	15 15 30.3	1 34 9.0	8.23681	27	16 9.7
	7.0	2 53 26.80	29 10.13	16 49 39.3	1 18 48.6	8.23654	42	16 9.1
	7.5	3 22 36.93	29 30.14	18 8 27.9	+1 2 1.2	8.23612	− 57	16 8.1
	8.0	3 52 7.07	29 44.68	+19 10 29.1	0 44 5.7	8.23555	70	16 6.9
	8.5	4 21 51.75	29 52.39	19 54 34.8	0 25 24.0	8.23485	85	16 5.3
	9.0	4 51 44.14	29 52.15	20 19 58.8	+0 6 21.2	8.23400	99	16 3.4
	9.5	5 21 36.29	29 43.59	20 26 20.0	−0 12 36.4	8.23301	115	16 1.2
	10.0	5 51 19.88	29 26.90	20 13 43.6	0 31 2.6	8.23186	129	15 58.7
	10.5	6 20 46.78	29 2.88	19 42 41.0	0 48 32.9	8.23057	144	15 55.9
	11.0	6 49 49.66	28 32.82	18 54 8.1	1 4 46.9	8.22913	159	15 52.7
	11.5	7 18 22.48	27 58.38	17 49 21.2	1 19 27.0	8.22754	173	15 49.2
	12.0	7 46 20.86	27 21.24	16 29 54.2	1 32 22.3	8.22581	186	15 45.4
	12.5	8 13 42.10	26 43.10	14 57 31.9	−1 43 24.9	8.22395	−198	15 41.4
	13.0	8 40 25.20	26 5.51	+13 14 7.0	1 52 32.9	8.22197	208	15 37.1
	13.5	9 6 30.71	25 29.74	11 21 34.1	1 59 46.7	8.21989	216	15 32.6
	14.0	9 32 0.45	24 56.76	9 21 47.4	2 5 9.7	8.21773	220	15 28.0
	14.5	9 56 57.21	24 27.43	7 16 37.7	2 8 47.8	8.21553	222	15 23.3
	15.0	10 21 24.64	24 2.24	5 7 49.9	2 10 47.5	8.21331	220	15 18.6
	15.5	10 45 26.88	23 41.46	2 57 2.4	2 11 15.6	8.21111	215	15 14.0
	16.0	11 9 8.34	23 25.37	+0 45 46.8	2 10 19.8	8.20896	205	15 9.5
	16.5	11 32 33.71	23 14.00	−1 24 33.0	2 8 7.1	8.20691	192	15 5.2
	17.0	11 55 47.71	23 7.26	3 32 40.1	2 4 42.8	8.20499	176	15 1.2
	17.5	12 18 54.97		5 37 22.9		8.20323		14 57.5

Juli 30 23h 27.3m Vollmond. Aug. 6 20h 55.5m Letzt. Viert. Aug. 13 21h 21.1m Neumond.

Im Meridian von Berlin.

Datum und Culmination			Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Decl.	Bew. in 1^h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Gr.
			h m	h m s	s	s	° ′ ″	″	h m	° ′	
Juli	29	O	10 45.0	19 12 23	−67.50	139.52	−18 7.3	+ 5.7	18 43.9	−20 26	5.5
		U	23 10.8	19 40 16	−67.41	139.24	−16 50.8	+ 7.0	18 57.3	−19 23	5.9
	30	O	11 36.6	20 8 4	−67.27	138.72	−15 19.2	+ 8.2	19 38.0	−15 42	5.5
	—		—	—	—	—	—	—	19 52.4	−15 45	5.0
	31	U	0 2.2	20 35 44	+67.09	138.04	−13 33.8	+ 9.3	20 28.8	−14 4	6.2
		O	12 27.7	21 3 16	+66.91	137.29	−11 36.0	+10.3	20 45.3	−12 55	6.3
Aug.	1	U	0 53.1	21 30 40	+66.76	136.63	− 9 27.3	+11.1	21 32.5	− 8 18	4.8
		O	13 18.3	21 57 57	+66.65	136.14	− 7 9.6	+11.8	21 39.8	− 9 32	5.2
	2	U	1 43.5	22 25 9	+66.61	135.91	− 4 45.0	+12.3	22 26.3	− 3 25	6.3
		O	14 8.6	22 52 20	+66.65	136.01	− 2 15.5	+12.6	22 32.7	− 4 44	5.5
	3	U	2 33.8	23 19 34	+66.80	136.48	+ 0 16.7	+12.7	23 21.9	+ 0 43	5.0
		O	14 59.1	23 46 56	+67.05	137.36	+ 2 49.3	+12.7	23 31.4	+ 1 33	5.6
	4	U	3 24.7	0 14 32	+67.39	138.65	+ 5 19.9	+12.4	0 15.6	+ 7 38	5.6
		O	15 50.6	0 42 25	+67.84	140.32	+ 7 46.3	+11.9	0 27.3	+ 6 25	5.7
	5	U	4 16.8	1 10 40	+68.37	142.34	+10 5.9	+11.3	1 3.2	+ 9 23	6.5
		O	16 43.4	1 39 21	+68.95	144.62	+12 16.4	+10.4	1 16.1	+11 1	6.5
	6	U	5 10.5	2 8 30	+69.56	147.03	+14 15.7	+ 9.4	2 7.7	+14 49	6.2
		O	17 38.1	2 38 8	+70.15	149.42	+16 1.5	+ 8.2	2 25.5	+17 16	6.5
	7	U	6 6.1	3 8 14	+70.69	151.65	+17 31.7	+ 6.8	3 6.0	+19 21	4.5
		O	18 34.6	3 38 45	+71.14	153.51	+18 44.6	+ 5.3	3 21.4	+18 25	6.5
	8	U	7 3.4	4 9 35	+71.45	154.82	+19 38.7	+ 3.7	4 11.5	+20 20	4.6
		O	19 32.4	4 40 37	+71.57	155.46	+20 12.8	+ 2.0	4 16.6	+20 35	6.5
	9	U	8 1.4	5 11 43	+71.51	155.31	+20 26.3	+ 0.3	5 13.4	+22 0	5.2
		O	20 30.3	5 42 42	+71.25	154.34	+20 19.3	− 1.4	5 21.7	+21 51	4.8
	10	U	8 59.0	6 13 25	+70.80	152.58	+19 52.2	− 3.1			
		O	21 27.3	6 43 42	+70.18	150.14	+19 5.9	− 4.6			
	11	U	9 55.0	7 13 27	+69.43	147.17	+18 1.7	− 6.0			
		O	22 22.0	7 42 35	+68.58	143.84	+16 41.5	− 7.3			
	12	U	10 48.4	8 11 1	+67.69	140.32	+15 7.2	− 8.4			
		O	23 14.1	8 38 44	+66.78	136.79	+13 21.0	− 9.3			
	13	U	11 39.1	9 5 46	+65.90	133.36	+11 25.0	−10.0			
	—		—	—	—	—	—	—			
	14	O	0 3.4	9 32 8	−65.07	130.31	+ 9 21.2	−10.6			
		U	12 27.1	9 57 53	−64.33	127.44	+ 7 11.8	−11.0			
	15	O	0 50.3	10 23 6	−63.69	124.94	+ 4 58.7	−11.2			
		U	13 13.0	10 47 52	−63.15	122.85	+ 2 43.7	−11.3			
	16	O	1 35.4	11 12 15	−62.74	121.20	+ 0 28.4	−11.2			
		U	13 57.5	11 36 22	−62.45	120.00	− 1 45.6	−11.1			
	17	O	2 19.4	12 0 17	−62.27	119.24	− 3 57.1	−10.8			
		U	14 41.1	12 24 5	−62.21	118.91	− 6 4.8	−10.4			

Aug. 5 21^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Aug. 17.0	11 55 47.71	23 7.26	− 3 32 40.1	−2 4 42.8	8.20499	−176	15 1.2
17.5	12 18 54.97	23 5.05	5 37 22.9	2 0 12.6	8.20323	155	14 57.5
18.0	12 42 0.02	23 7.18	7 37 35.5	1 54 41.0	8.20168	133	14 54.3
18.5	13 5 7.20	23 13.32	9 32 16.5	1 48 11.3	8.20035	106	14 51.6
19.0	13 28 20.52	23 23.20	11 20 27.8	1 40 46.2	8.19929	77	14 49.4
19.5	13 51 43.72	23 36.36	13 1 14.0	1 32 28.2	8.19852	47	14 47.8
20.0	14 15 20.08	23 52.32	14 33 42.2	1 23 17.6	8.19805	− 14	14 46.9
20.5	14 39 12.40	24 10.52	15 56 59.8	1 13 16.3	8.19791	+ 19	14 46.6
21.0	15 3 22.92	24 30.28	17 10 16.1	1 2 25.5	8.19810	54	14 47.0
21.5	15 27 53.20	24 50.92	18 12 41.6	−0 50 46.2	8.19864	+ 88	14 48.1
22.0	15 52 44.12	25 11.71	−19 3 27.8	0 38 21.0	8.19952	122	14 49.9
22.5	16 17 55.83	25 31.82	19 41 48.8	0 25 12.6	8.20074	155	14 52.4
23.0	16 43 27.65	25 50.58	20 7 1.4	−0 11 26.0	8.20229	185	14 55.6
23.5	17 9 18.23	26 7.25	20 18 27.4	+0 2 52.8	8.20414	213	14 59.4
24.0	17 35 25.48	26 21.39	20 15 34.6	0 17 36.2	8.20627	239	15 3.8
24.5	18 1 46.87	26 32.61	19 57 58.4	0 32 34.2	8.20866	261	15 8.8
25.0	18 28 19.48	26 40.79	19 25 24.2	0 47 35.6	8.21127	277	15 14.3
25.5	18 55 0.27	26 46.07	18 37 48.6	1 2 28.0	8.21404	290	15 20.2
26.0	19 21 46.34	26 48.75	17 35 20.6	1 16 57.2	8.21694	297	15 26.3
26.5	19 48 35.09	26 49.40	16 18 23.4	+1 30 47.9	8.21991	+298	15 32.7
27.0	20 15 24.49	26 48.73	−14 47 35.5	1 43 45.7	8.22289	294	15 39.1
27.5	20 42 13.22	26 47.51	13 3 49.8	1 55 34.6	8.22583	283	15 45.5
28.0	21 9 0.73	26 46.63	11 8 15.2	2 5 59.9	8.22866	266	15 51.7
28.5	21 35 47.36	26 46.87	9 2 15.3	2 14 47.5	8.23132	245	15 57.5
29.0	22 2 34.23	26 48.99	6 47 27.8	2 21 44.2	8.23377	218	16 2.9
29.5	22 29 23.22	26 53.61	4 25 43.6	2 26 38.6	8.23595	187	16 7.8
30.0	22 56 16.83	27 1.20	− 1 59 5.0	2 29 21.1	8.23782	153	16 12.0
30.5	23 23 18.03	27 11.97	+ 0 30 16.1	2 29 44.3	8.23935	117	16 15.4
31.0	23 50 30.00	27 25.95	3 0 0.4	2 27 43.1	8.24052	79	16 18.0
31.5	0 17 55.95	27 42.89	5 27 43.5	+2 23 16.1	8.24131	+ 43	16 19.8
Sept. 1.0	0 45 38.84	28 2.25	+ 7 50 59.6	2 16 23.7	8.24174	+ 7	16 20.7
1.5	1 13 41.09	28 23.22	10 7 23.3	2 7 10.5	8.24181	− 27	16 20.9
2.0	1 42 4.31	28 44.69	12 14 33.8	1 55 44.6	8.24154	58	16 20.3
2.5	2 10 49.00	29 5.28	14 10 18.4	1 42 17.0	8.24096	86	16 19.0
3.0	2 39 54.28	29 23.59	15 52 35.4	1 27 3.2	8.24010	109	16 17.1
3.5	3 9 17.87	29 37.99	17 19 38.6	1 10 21.3	8.23901	130	16 14.6
4.0	3 38 55.86	29 47.09	18 29 59.9	0 52 33.0	8.23771	147	16 11.7
4.5	4 8 42.95	29 49.86	19 22 32.9	0 34 2.0	8.23624	160	16 8.4
5.0	4 38 32.81	29 45.36	19 56 34.9	+0 15 13.5	8.23464	171	16 4.8
5.5	5 8 18.17		20 11 48.4		8.23293		16 1.0

Aug. 21 20h 45.6m Erstes Viertel. Aug. 29 9h 14.7m Vollmond.

Im Meridian von Berlin.

Datum und Culmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Decl.	Bew. in 1^h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Aug. 17	O	2 19.4	12 0 17	—62.27	119.24	— 3 57.1	—10.8			
	U	14 41.1	12 24 5	—62.21	118.91	— 6 4.8	—10.4			
18	O	3 2.9	12 47 52	—62.27	118.99	— 8 7.3	—10.0			
	U	15 24.7	13 11 43	—62.42	119.46	—10 3.7	— 9.4			
19	O	3 46.6	13 35 41	—62.68	120.29	—11 53.0	— 8.8	13 4.6	— 9 48	6.5
	U	16 8.8	13 59 51	—63.02	121.44	—13 34.2	— 8.1	13 20.0	—10 39	1.2
20	O	4 31.2	14 24 17	—63.43	122.88	—15 6.2	— 7.3	13 59.1	—14 30	6.5
	U	16 53.9	14 49 2	—63.88	124.52	—16 28.2	— 6.4	14 5.5	—15 50	5.3
21	O	5 17.0	15 14 7	—64.37	126.33	—17 39.1	— 5.4	14 46.3	—17 57	6.4
	U	17 40.4	15 39 35	—64.87	128.23	—18 38.2	— 4.4	15 1.2	—15 52	5.4
22	O	6 4.2	16 5 26	—65.37	130.15	—19 24.5	— 3.3	15 36.3	—19 21	5.0
	U	18 28.4	16 31 40	—65.85	132.01	—19 57.1	— 2.1	15 47.6	—19 52	5.0
23	O	6 52.9	16 58 15	—66.27	133.74	—20 15.3	— 0.9	16 26.3	—21 15	4.7
	U	19 17.8	17 25 9	—66.64	135.27	—20 18.4	+ 0.4	16 34.8	—20 13	6.5
24	O	7 42.9	17 52 21	—66.94	136.56	—20 6.0	+ 1.7	17 18.8	—21 21	6.5
	U	20 8.3	18 19 46	—67.17	137.56	—19 37.5	+ 3.0	17 29.4	—21 59	6.5
25	O	8 33.9	18 47 21	—67.31	138.26	—18 52.9	+ 4.4	18 19.5	—20 36	4.9
	U	20 59.5	19 15 3	—67.39	138.70	—17 52.3	+ 5.7	18 24.4	—18 47	5.7
26	O	9 25.2	19 42 49	—67.40	138.89	—16 36.1	+ 7.0	19 11.9	—19 8	4.9
	U	21 51.0	20 10 36	—67.37	138.91	—15 4.9	+ 8.2	19 16.0	—18 2	3.9
27	O	10 16.7	20 38 23	—67.32	138.82	—13 19.5	+ 9.3	19 52.4	—15 45	5.0
	U	22 42.4	21 6 8	—67.27	138.71	—11 21.2	+10.4	20 15.5	—15 6	3.4
28	O	11 8.1	21 33 52	—67.24	138.65	— 9 11.6	+11.3	21 4.3	—11 46	4.6
	U	23 33.8	22 1 36	—67.25	138.73	— 6 52.5	+12.0	21 9.0	—11 1	6.5
29	O	11 59.6	22 29 22	+67.32	139.05	— 4 25.8	+12.5	21 58.1	— 7 0	5.6
—		—	—	—	—	—	—	22 7.6	— 5 13	6.3
30	U	0 25.4	22 57 14	+67.47	139.63	— 1 53.8	+12.8	22 55.6	— 0 21	6.5
	O	12 51.3	23 25 14	+67.69	140.49	+ 0 41.0	+13.0	23 21.9	+ 0 43	5.0
31	U	1 17.5	23 53 26	+68.00	141.68	+ 3 16.0	+12.9	23 41.4	+ 2 56	5.2
	O	13 43.9	0 21 55	+68.39	143.17	+ 5 48.7	+12.6	23 47.0	+ 2 23	5.9
Sept. 1	U	2 10.7	0 50 43	+68.85	144.91	+ 8 16.3	+12.0	0 43.6	+ 7 3	4.6
	O	14 37.8	1 19 53	+69.35	146.84	+10 36.1	+11.3	0 57.9	+ 7 21	4.5
2	U	3 5.3	1 49 26	+69.87	148.85	+12 45.5	+10.3	1 54.2	+11 49	6.2
	O	15 33.2	2 19 24	+70.38	150.82	+14 42.1	+ 9.1	1 57.3	+13 0	6.5
3	U	4 1.5	2 49 44	+70.84	152.59	+16 23.6	+ 7.8	2 46.1	+14 40	5.5
	O	16 30.1	3 20 23	+71.20	154.00	+17 48.1	+ 6.3	2 50.9	+17 38	5.5
4	U	4 59.0	3 51 17	+71.44	154.90	+18 54.0	+ 4.7	3 38.8	+20 37	5.9
	O	17 28.0	4 22 18	+71.52	155.19	+19 40.4	+ 3.0	3 55.2	+17 55	5.7
5	U	5 56.9	4 53 19	+71.42	154.77	+20 6.5	+ 1.3	4 45.6	+18 40	5.1
	O	18 25.7	5 24 10	+71.15	153.63	+20 12.3	— 0.4	4 57.2	+21 27	4.7

Aug. 20 11^h Apogaeum. Sept. 1 8^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Sept. 5.0	4 38 32.81	29 45.36	+19 56 34.9	+0 15 13.5	8.23464	−171	16 4.8
5.5	5 8 18.17	29 33.60	20 11 48.4	−0 3 27.5	8.23293	178	16 1.0
6.0	5 37 51.77	29 14.78	20 8 20.9	0 21 38.1	8.23115	184	15 57.1
6.5	6 7 6.55	28 49.76	19 46 42.8	0 38 56.4	8.22931	187	15 53.1
7.0	6 35 56.31	28 19.80	19 7 46.4	0 55 5.2	8.22744	190	15 49.0
7.5	7 4 16.11	27 46.28	18 12 41.2	1 9 50.1	8.22554	192	15 44.8
8.0	7 32 2.39	27 10.76	17 2 51.1	1 23 2.1	8.22362	192	15 40.7
8.5	7 59 13.15	26 34.67	15 39 49.0	1 34 34.6	8.22170	193	15 36.5
9.0	8 25 47.82	25 59.34	14 5 14.4	1 44 25.0	8.21977	192	15 32.4
9.5	8 51 47.16	25 25.81	12 20 49.4	−1 52 32.5	8.21785	−192	15 28.3
10.0	9 17 12.97	24 55.04	+10 28 16.9	1 58 58.7	8.21593	190	15 24.2
10.5	9 42 8.01	24 27.59	8 29 18.2	2 3 46.6	8.21403	189	15 20.1
11.0	10 6 35.60	24 3.97	6 25 31.6	2 6 59.9	8.21214	185	15 16.1
11.5	10 30 39.57	23 44.40	4 18 31.7	2 8 43.0	8.21029	181	15 12.2
12.0	10 54 23.97	23 29.09	2 9 48.7	2 9 0.5	8.20848	176	15 8.4
12.5	11 17 53.06	23 17.96	+ 0 0 48.2	2 7 57.0	8.20672	169	15 4.8
13.0	11 41 11.02	23 11.02	− 2 7 8.8	2 5 36.6	8.20503	158	15 1.3
13.5	12 4 22.04	23 8.04	4 12 45.4	2 2 4.1	8.20345	147	14 58.0
14.0	12 27 30.08	23 8.90	6 14 49.5	1 57 23.7	8.20198	133	14 55.0
14.5	12 50 38.98	23 13.22	8 12 13.2	−1 51 38.2	8.20065	−117	14 52.2
15.0	13 13 52.20	23 20.70	−10 3 51.4	1 44 51.5	8.19948	98	14 49.8
15.5	13 37 12.90	23 30.95	11 48 42.9	1 37 7.2	8.19850	77	14 47.8
16.0	14 0 43.85	23 43.55	13 25 50.1	1 28 27.9	8.19773	53	14 46.2
16.5	14 24 27.40	23 57.94	14 54 18.0	1 18 56.5	8.19720	− 27	14 45.2
17.0	14 48 25.34	24 13.67	16 13 14.5	1 8 36.0	8.19693	+ 2	14 44.6
17.5	15 12 39.01	24 30.06	17 21 50.5	0 57 30.0	8.19695	31	14 44.6
18.0	15 37 9.07	24 46.62	18 19 20.5	0 45 41.3	8.19726	63	14 45.3
18.5	16 1 55.69	25 2.82	19 5 1.8	0 33 13.9	8.19789	95	14 46.6
19.0	16 26 58.51	25 18.02	19 38 15.7	0 20 13.0	8.19884	128	14 48.5
19.5	16 52 16.53	25 31.86	19 58 28.7	−0 6 43.4	8.20012	+161	14 51.1
20.0	17 17 48.39	25 43.96	−20 5 12.1	+0 7 9.2	8.20173	193	14 54.4
20.5	17 43 32.35	25 54.19	19 58 2.9	0 21 17.2	8.20366	225	14 58.4
21.0	18 9 26.54	26 2.49	19 36 45.7	0 35 33.1	8.20591	253	15 3.1
21.5	18 35 29.03	26 8.93	19 1 12.6	0 49 48.5	8.20844	280	15 8.4
22.0	19 1 37.96	26 13.84	18 11 24.1	1 3 53.5	8.21124	303	15 14.2
22.5	19 27 51.80	26 17.70	17 7 30.6	1 17 38.2	8.21427	322	15 20.6
23.0	19 54 9.50	26 21.01	15 49 52.4	1 30 50.7	8.21749	335	15 27.5
23.5	20 20 30.51	26 24.42	14 19 1.7	1 43 19.3	8.22084	343	15 34.7
24.0	20 46 54.93	26 28.62	12 35 42.4	1 54 50.7	8.22427	344	15 42.1
24.5	21 13 23.55		10 40 51.7		8.22771		15 49.6

Sept. 5 2h 20.8m Letzt. Viert. Sept. 12 10h 12.1m Neumond. Sept. 20 14h 26.9m Erst. Viert.

Im Meridian von Berlin.

Datum und Culmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Sept. 5	U	5 56.9	4 53 19	+71.42	154.77	+20 6.5	+ 1.3	4 45.6	+18 40	5.1
	O	18 25.7	5 24 10	+71.15	153.63	+20 12.3	— 0.4	4 57.2	+21 27	4.7
6	U	6 54.2	5 54 44	+70.70	151.81	+19 58.1	— 2.0	5 49.1	+19 44	5.9
	O	19 22.3	6 24 52	+70.10	149.41	+19 24.8	— 3.5	5 57.6	+19 42	5.1
7	U	7 49.9	6 54 29	+69.37	146.54	+18 33.6	— 5.0	6 56.7	+17 54	6.2
	O	20 16.9	7 23 30	+68.55	143.35	+17 26.0	— 6.3	7 12.4	+16 43	3.6
8	U	8 43.2	7 51 51	+67.69	140.02	+16 3.7	— 7.4			
	O	21 8.8	8 19 32	+66.81	136.67	+14 28.7	— 8.4			
9	U	9 33.8	8 46 33	+65.96	133.44	+12 42.7	— 9.2			
	O	21 58.1	9 12 57	+65.15	130.42	+10 47.8	— 9.9			
10	U	10 21.9	9 38 46	+64.41	127.69	+ 8 45.8	—10.4			
	O	22 45.2	10 4 4	+63.76	125.30	+ 6 38.6	—10.8			
11	U	11 8.0	10 28 56	+63.22	123.29	+ 4 27.8	—11.0			
	O	23 30.5	10 53 26	+62.78	121.68	+ 2 15.1	—11.1			
12	U	11 52.7	11 17 39	—62.45	120.47	+ 0 2.1	—11.0			
	—	—	—	—	—	—	—			
13	O	0 14.6	11 41 39	—62.22	119.68	— 2 9.7	—10.9			
	U	12 36.5	12 5 32	—62.11	119.24	— 4 19.0	—10.6			
14	O	0 58.3	12 29 22	—62.11	119.16	— 6 24.5	—10.3			
	U	13 20.1	12 53 14	—62.20	119.43	— 8 25.0	— 9.8			
15	O	1 42.0	13 17 10	—62.38	120.00	—10 19.2	— 9.2			
	U	14 4.1	13 41 15	—62.64	120.85	—12 6.0	— 8.6			
16	O	2 26.3	14 5 32	—62.97	121.94	—13 44.5	— 7.8			
	U	14 48.8	14 30 3	—63.34	123.22	—15 13.7	— 7.0			
17	O	3 11.6	14 54 50	—63.75	124.63	—16 32.5	— 6.1			
	U	15 34.6	15 19 55	—64.18	126.13	—17 40.2	— 5.1			
18	O	3 58.0	15 45 18	—64.61	127.66	—18 35.8	— 4.1	15 15.3	—17 48	6.0
	U	16 21.7	16 11 0	—65.03	129.16	—19 18.6	— 3.0	15 27.0	—19 20	5.4
19	O	4 45.6	16 36 59	—65.42	130.58	—19 47.9	— 1.9	16 6.3	—19 12	4.5
	U	17 9.8	17 3 14	—65.77	131.87	—20 3.1	— 0.7	16 11.2	—19 51	6.5
20	O	5 34.2	17 29 44	—66.06	133.01	—20 3.6	+ 0.6	17 0.3	—21 26	6.6
	U	17 58.9	17 56 26	—66.31	133.96	—19 49.2	+ 1.8	17 15.1	—21 0	4.5
21	O	6 23.7	18 23 18	—66.50	134.72	—19 19.6	+ 3.1	18 1.3	—21 27	6.4
	U	18 48.7	18 50 19	—66.64	135.31	—18 34.7	+ 4.4	18 7.9	—21 5	4.1
22	O	7 13.8	19 17 26	—66.73	135.76	—17 34.6	+ 5.7	18 43.9	—20 26	5.5
	U	19 38.9	19 44 37	—66.80	136.11	—16 19.6	+ 6.9	18 57.3	—19 23	5.9
23	O	8 4.1	20 11 52	—66.85	136.42	—14 50.2	+ 8.0	19 38.0	—15 42	5.5
	U	20 29.4	20 39 11	—66.90	136.73	—13 7.2	+ 9.1	19 52.4	—15 45	5.0
24	O	8 54.8	21 6 34	—66.96	137.14	—11 11.5	+10.1	20 28.7	—14 4	6.2
	U	21 20.2	21 34 3	—67.08	137.71	— 9 4.3	+11.0	20 45.3	—12 55	6.3

Sept. 17 6^h Apogaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Sept. 24.0	20 46 54.93	26 28.62	−12 35 42.4	+1 54 50.7	8.22427	+344	15 42.1
24.5	21 13 23.55	26 34.27	10 40 51.7	2 5 10.6	8.22771	339	15 49.6
25.0	21 39 57.82	26 42.02	8 35 41.1	2 14 5.3	8.23110	325	15 57.0
25.5	22 6 39.84	26 52.33	6 21 35.8	2 21 18.7	8.23435	304	16 4.2
26.0	22 33 32.17	27 5.68	4 0 17.1	2 26 35.9	8.23739	276	16 11.0
26.5	23 0 37.85	27 22.25	− 1 33 41.2	2 29 43.0	8.24015	241	16 17.2
27.0	23 28 0.10	27 42.04	+ 0 56 1.8	2 30 26.0	8.24256	200	16 22.6
27.5	23 55 42.14	28 4.75	3 26 27.8	2 28 35.0	8.24456	155	16 27.2
28.0	0 23 46.89	28 29.82	5 55 2.8	2 24 2.4	8.24611	106	16 30.7
28.5	0 52 16.71	28 56.30	8 19 5.2	+2 16 45.5	8.24717	+ 55	16 33.1
29.0	1 21 13.01	29 22.94	+10 35 50.7	2 6 47.4	8.24772	+ 4	16 34.4
29.5	1 50 35.95	29 48.16	12 42 38.1	1 54 16.3	8.24776	− 46	16 34.5
30.0	2 20 24.11	30 10.22	14 36 54.4	1 39 27.6	8.24730	92	16 33.4
30.5	2 50 34.33	30 27.25	16 16 22.0	1 22 43.0	8.24638	135	16 31.3
Oct. 1.0	3 21 1.58	30 37.60	17 39 5.0	1 4 28.9	8.24503	172	16 28.2
1.5	3 51 39.18	30 39.99	18 43 33.9	0 45 15.4	8.24331	203	16 24.3
2.0	4 22 19.17	30 33.58	19 28 49.3	0 25 35.0	8.24128	229	16 19.7
2.5	4 52 52.75	30 18.34	19 54 24.3	+0 5 59.2	8.23899	248	16 14.6
3.0	5 23 11.09	29 54.82	20 0 23.5	−0 13 3.1	8.23651	260	16 9.0
3.5	5 53 5.91	29 24.25	19 47 20.4	−0 31 6.9	8.23391	−269	16 3.2
4.0	6 22 30.16	28 48.21	+19 16 13.5	0 47 53.0	8.23122	271	15 57.3
4.5	6 51 18.37	28 8.54	18 28 20.5	1 3 7.8	8.22851	270	15 51.3
5.0	7 19 26.91	27 27.10	17 25 12.7	1 16 43.1	8.22581	266	15 45.4
5.5	7 46 54.01	26 45.58	16 8 29.6	1 28 35.2	8.22315	258	15 39.7
6.0	8 13 39.59	26 5.48	14 39 54.4	1 38 43.5	8.22057	248	15 34.1
6.5	8 39 45.07	25 27.96	13 1 10.9	1 47 10.9	8.21809	238	15 28.8
7.0	9 5 13.03	24 53.92	11 14 0.0	1 54 0.5	8.21571	226	15 23.7
7.5	9 30 6.95	24 23.98	9 19 59.5	1 59 17.0	8.21345	212	15 18.9
8.0	9 54 30.93	23 58.49	7 20 42.5	2 3 5.3	8.21133	200	15 14.4
8.5	10 18 29.42	23 37.68	5 17 37.2	−2 5 29.3	8.20933	−187	15 10.2
9.0	10 42 7.10	23 21.59	+ 3 12 7.9	2 6 33.0	8.20746	174	15 6.3
9.5	11 5 28.69	23 10.10	+ 1 5 34.9	2 6 20.5	8.20572	161	15 2.7
10.0	11 28 38.79	23 3.12	− 1 0 45.6	2 4 54.1	8.20411	148	14 59.4
10.5	11 51 41.91	23 0.33	3 5 39.7	2 2 16.3	8.20263	135	14 56.3
11.0	12 14 42.24	23 1.48	5 7 56.0	1 58 30.0	8.20128	122	14 53.5
11.5	12 37 43.72	23 6.15	7 6 26.0	1 53 37.0	8.20006	108	14 51.0
12.0	13 0 49.87	23 13.90	9 0 3.0	1 47 39.1	8.19898	94	14 48.8
12.5	13 24 3.77	23 24.31	10 47 42.1	1 40 39.3	8.19804	79	14 46.9
13.0	13 47 28.08	23 36.78	12 28 21.4	1 32 39.6	8.19725	62	14 45.3
13.5	14 11 4.86		14 1 1.0		8.19663		14 44.0

Sept. 27 18h 29.3m Vollmond. Oct. 4 9h 45.8m Letzt. Viert. Oct. 12 2h 4.9m Neumond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
	h m	h m s	s	s	° ′	″	h m	° ′	
Sept. 24 O	8 54.8	21 6 34	—66.96	137.14	—11 11.5	+10.1	20 28.7	—14 4	6.2
U	21 20.2	21 34 3	—67.08	137.71	— 9 4.3	+11.0	20 45.3	—12 55	6.3
25 O	9 45.8	22 1 41	—67.25	138.48	— 6 47.2	+11.8	21 32.6	— 8 18	4.8
U	22 11.5	22 29 29	—67.48	139.53	— 4 22.0	+12.4	21 39.8	— 9 32	5.2
26 O	10 37.5	22 57 31	—67.79	140.87	— 1 50.7	+12.8	22 26.3	— 3 25	6.3
U	23 3.8	23 25 51	—68.19	142.52	+ 0 44.3	+13.0	22 32.7	— 4 44	5.5
27 O	11 30.5	23 54 33	—68.67	144.49	+ 3 20.3	+13.0	23 21.9	+ 0 43	5.0
U	23 57.6	0 23 41	+69.22	146.81	+ 5 54.5	+12.7	23 31.4	+ 1 33	5.6
28 O	12 25.1	0 53 17	+69.82	149.26	+ 8 24.0	+12.2	0 27.4	+ 6 25	5.7
—	—	—	—	—	—	—	0 43.2	+ 6 46	6.0
29 U	0 53.2	1 23 22	+70.44	151.77	+10 45.6	+11.4	1 16.2	+11 1	6.5
O	13 21.7	1 53 57	+71.05	154.21	+12 56.3	+10.4	1 31.9	+11 38	5.6
30 U	1 50.7	2 25 1	+71.60	156.42	+14 53.2	+ 9.1	2 27.6	+14 36	6.5
O	14 20.1	2 56 29	+72.05	158.19	+16 33.8	+ 7.6	2 38.9	+17 21	6.5
Oct. 1 U	2 49.8	3 28 14	+72.37	159.35	+17 56.0	+ 6.0	3 25.8	+17 36	6.5
O	15 19.7	4 0 9	+72.50	159.76	+18 58.1	+ 4.3	3 33.3	+20 36	6.2
2 U	3 49.6	4 32 5	+72.42	159.30	+19 39.1	+ 2.5	4 30.0	+19 41	6.5
O	16 19.3	5 3 50	+72.14	157.97	+19 58.8	+ 0.7	4 32.5	+20 29	5.8
3 U	4 48.6	5 35 14	+71.65	155.83	+19 57.4	— 1.0	5 31.8	+21 5	3.0
O	17 17.5	6 6 8	+70.98	152.98	+19 35.8	— 2.6	5 46.6	+19 51	6.1
4 U	5 45.7	6 36 25	+70.17	149.59	+18 55.2	— 4.1	6 36.7	+17 45	5.1
O	18 13.2	7 5 59	+69.26	145.87	+17 57.4	— 5.5	6 41.7	+18 18	6.5
5 U	6 40.0	7 34 47	+68.29	142.00	+16 44.2	— 6.7	7 33.8	+17 54	5.2
O	19 6.0	8 2 49	+67.30	138.15	+15 17.4	— 7.7	7 51.4	+16 3	5.9
6 U	7 31.2	8 30 5	+66.35	134.45	+13 39.1	— 8.6	8 23.1	+14 32	5.9
O	19 55.7	8 56 38	+65.44	131.03	+11 51.2	— 9.3	8 37.8	+13 2	5.6
7 U	8 19.6	9 22 33	+64.61	127.96	+ 9 55.5	— 9.9	9 23.2	+ 9 29	5.6
O	20 42.9	9 47 53	+63.88	125.30	+ 7 53.8	—10.3	9 26.7	+10 9	5.4
8 U	9 5.7	10 12 43	+63.25	123.07	+ 5 47.7	—10.6			
O	21 28.1	10 37 9	+62.74	121.29	+ 3 38.7	—10.8			
9 U	9 50.2	11 1 17	+62.35	119.96	+ 1 28.4	—10.9			
O	22 12.1	11 25 11	+62.08	119.06	— 0 41.9	—10.8			
10 U	10 33.8	11 48 56	+61.92	118.58	— 2 50.8	—10.7			
O	22 55.4	12 12 38	+61.87	118.47	— 4 57.1	—10.4			
11 U	11 17.1	12 36 21	+61.93	118.73	— 6 59.5	—10.0			
O	23 38.9	13 0 9	+62.08	119.31	— 8 56.8	— 9.5			
12 U	12 0.8	13 24 5	—62.30	120.10	—10 47.8	— 9.0			
—	—	—	—	—	—	—			
13 O	0 22.9	13 48 13	—62.59	121.15	—12 31.4	— 8.3			
U	12 45.2	14 12 34	—62.93	122.38	—14 6.5	— 7.5			

Sept. 29 7^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum		AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Oct.	13.0	13 47 28.08	23 36.78	−12 28 21.4	−1 32 39.6	8.19725	−62	14 45.3
	13.5	14 11 4.86	23 50.75	14 1 1.0	1 23 42.9	8.19663	44	14 44.0
	14.0	14 34 55.61	24 5.60	15 24 43.9	1 13 52.6	8.19619	24	14 43.1
	14.5	14 59 1.21	24 20.71	16 38 36.5	1 3 13.2	8.19595	−4	14 42.6
	15.0	15 23 21.92	24 35.46	17 41 49.7	0 51 49.1	8.19591	+19	14 42.5
	15.5	15 47 57.38	24 49.24	18 33 38.8	0 39 46.0	8.19610	43	14 42.9
	16.0	16 12 46.62	25 1.64	19 13 24.8	0 27 9.7	8.19653	69	14 43.8
	16.5	16 37 48.26	25 12.18	19 40 34.5	0 14 7.0	8.19722	96	14 45.2
	17.0	17 3 0.44	25 20.68	19 54 41.5	−0 0 44.8	8.19818	124	14 47.2
	17.5	17 28 21.12		19 55 26.3		8.19942		14 49.7
			25 27.04		+0 12 49.1		+154	
	18.0	17 53 48.16	25 31.42	−19 42 37.2	0 26 27.4	8.20096	183	14 52.9
	18.5	18 19 19.58	25 34.01	19 16 9.8	0 40 2.8	8.20279	213	14 56.6
	19.0	18 44 53.59	25 35.32	18 36 7.0	0 53 27.2	8.20492	242	15 1.0
	19.5	19 10 28.91	25 35.85	17 42 39.8	1 6 33.6	8.20734	270	15 6.1
	20.0	19 36 4.76	25 36.34	16 36 6.2	1 19 14.5	8.21004	296	15 11.7
	20.5	20 1 41.10	25 37.46	15 16 51.7	1 31 21.7	8.21300	319	15 17.9
	21.0	20 27 18.56	25 39.96	13 45 30.0	1 42 47.1	8.21619	338	15 24.7
	21.5	20 52 58.52	25 44.64	12 2 42.9	1 53 22.1	8.21957	352	15 31.9
	22.0	21 18 43.16	25 52.10	10 0 20.8	2 2 56.0	8.22309	362	15 39.5
	22.5	21 44 35.26		8 6 24.8		8.22671		15 47.4
			26 3.05		+2 11 17.4		+365	
	23.0	22 10 38.31	26 17.92	−5 55 7.4	2 18 14.0	8.23036	360	15 55.4
	23.5	22 36 56.23	26 37.09	3 36 53.4	2 23 30.9	8.23396	347	16 3.4
	24.0	23 3 33.32	27 0.72	−1 13 22.5	2 26 53.1	8.23743	327	16 11.1
	24.5	23 30 34.04	27 28.72	+1 13 30.6	2 28 4.8	8.24070	298	16 18.4
	25.0	23 58 2.76	28 0.68	3 41 35.4	2 26 50.1	8.24368	260	16 25.1
	25.5	0 26 3.44	28 35.85	6 8 25.5	2 22 55.7	8.24628	216	16 31.1
	26.0	0 54 39.29	29 12.98	8 31 21.2	2 16 11.9	8.24844	165	16 36.0
	26.5	1 23 52.27	29 50.47	10 47 33.1	2 6 33.5	8.25009	109	16 39.8
	27.0	1 53 42.74	30 26.20	12 54 6.6	1 54 4.4	8.25118	+50	16 42.3
	27.5	2 24 8.94		14 48 11.0		8.25168		16 43.5
			30 57.73		+1 38 55.4		−9	
	28.0	2 55 6.67	31 22.61	+16 27 6.4	1 21 27.5	8.25159	69	16 43.3
	28.5	3 26 29.28	31 38.41	17 48 33.9	1 2 11.0	8.25090	125	16 41.7
	29.0	3 58 7.69	31 43.46	18 50 44.9	0 41 42.6	8.24965	177	16 38.8
	29.5	4 29 51.15	31 36.63	19 32 27.5	+0 20 42.6	8.24788	223	16 34.7
	30.0	5 1 27.78	31 18.03	19 53 10.1	−0 0 7.5	8.24565	261	16 29.6
	30.5	5 32 45.81	30 48.64	19 53 2.6	0 20 10.2	8.24304	291	16 23.7
	31.0	6 3 34.45	30 10.37	19 32 52.4	0 38 55.0	8.24013	314	16 17.1
	31.5	6 33 44.82	29 25.60	18 53 57.4	0 55 58.9	8.23699	329	16 10.1
Nov.	1.0	7 3 10.42	28 36.82	17 57 58.5	1 11 7.8	8.23370	337	16 2.8
	1.5	7 31 47.24		16 46 50.7		8.23033		15 55.3

Oct. 20 6h 51m.2 Erstes Viertel. Oct. 27 3h 59m.9 Vollmond.

Im Meridian von Berlin.

Datum und Culmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Gr.
		h m	h m s	s	s	° ′	′			
Oct. 13	O	0 22.9	13 48 13	−62.59	121.15	−12 31.4	− 8.3			
	U	12 45.2	14 12 34	−62.93	122.38	−14 6.5	− 7.5			
14	O	1 7.8	14 37 11	−63.30	123.71	−15 32.1	− 6.7			
	U	13 30.7	15 2 4	−63.70	125.10	−16 47.2	− 5.8			
15	O	1 53.8	15 27 14	−64.09	126.47	−17 50.8	− 4.8			
	U	14 17.2	15 52 40	−64.46	127.78	−18 42.2	− 3.8			
16	O	2 40.8	16 18 21	−64.81	128.97	−19 20.6	− 2.7			
	U	15 4.7	16 44 15	−65.11	129.99	−19 45.5	− 1.5			
17	O	3 28.8	17 10 21	−65.36	130.82	−19 56.3	− 0.3			
	U	15 53.0	17 36 35	−65.56	131.45	−19 52.8	+ 0.9			
								h m	° ′	
18	O	4 17.3	18 2 55	−65.69	131.89	−19 34.7	+ 2.1	17 32.8	−21 51	6.3
	U	16 41.6	18 29 19	−65.78	132.15	−19 2.1	+ 3.3	17 37.5	−21 38	5.0
19	O	5 6.0	18 55 46	−65.84	132.27	−18 15.0	+ 4.5	18 25.7	−18 28	5.2
	U	17 30.4	19 22 14	−65.86	132.33	−17 13.7	+ 5.7	18 33.0	−21 8	6.0
20	O	5 54.9	19 48 42	−65.87	132.37	−15 58.6	+ 6.8	19 31.4	−18 27	6.0
	U	18 19.3	20 15 11	−65.90	132.47	−14 30.2	+ 7.9	19 35.1	−16 31	5.5
21	O	6 43.8	20 41 42	−65.95	132.70	−12 49.2	+ 8.9	20 15.5	−15 6	3.4
	U	19 8.3	21 8 17	−66.04	133.15	−10 56.5	+ 9.8	20 25.6	−15 23	6.2
22	O	7 33.0	21 34 59	−66.20	133.86	− 8 53.0	+10.7	21 9.0	−11 1	6.5
	U	19 57.8	22 1 51	−66.45	134.92	− 6 40.1	+11.5	21 17.7	− 9 44	6.4
23	O	8 22.9	22 28 59	−66.79	136.36	− 4 19.2	+12.1	21 58.1	− 7 0	5.6
	U	20 48.3	22 56 26	−67.23	138.21	− 1 52.0	+12.5	22 7.6	− 5 13	6.3
24	O	9 14.2	23 24 19	−67.78	140.50	+ 0 39.5	+12.7	22 53.2	− 2 55	6.3
	U	21 40.5	23 52 41	−68.43	143.21	+ 3 12.9	+12.8	22 55.6	− 0 21	6.5
25	O	10 7.4	0 21 38	−69.16	146.30	+ 5 45.7	+12.6	23 41.4	+ 2 56	5.2
	U	22 35.0	0 51 15	−69.96	149.67	+ 8 14.8	+12.2	23 47.0	+ 2 23	5.9
26	O	11 3.2	1 21 33	−70.81	153.20	+10 37.1	+11.5	0 43.6	+ 7 3	4.6
	U	23 32.2	1 52 33	−71.63	156.68	+12 49.4	+10.5	0 57.9	+ 7 21	4.5
27	O	12 1.8	2 24 14	+72.39	160.03	+14 48.4	+ 9.3	1 54.2	+11 49	6.2
—		—	—	—	—	—	—	1 57.3	+13 0	6.5
28	U	0 32.0	2 56 30	+73.03	162.71	+16 31.1	+ 7.8	2 50.9	+17 38	5.5
	O	13 2.7	3 29 14	+73.50	164.59	+17 54.8	+ 6.1	3 6.0	+19 21	4.5
29	U	1 33.7	4 2 15	+73.73	165.46	+18 57.4	+ 4.3	4 3.5	+19 21	5.8
	O	14 4.7	4 35 20	+73.69	165.19	+19 37.6	+ 2.4	4 11.5	+20 20	4.6
30	U	2 35.5	5 8 16	+73.39	163.73	+19 54.9	+ 0.5	5 3.1	+19 44	6.5
	O	15 6.0	5 40 47	+72.83	161.18	+19 49.7	− 1.4	5 13.4	+22 0	5.2
31	U	3 35.9	6 12 42	+72.05	157.71	+19 23.1	− 3.1	6 9.1	+19 11	5.1
	O	16 5.0	6 43 51	+71.09	153.57	+18 36.7	− 4.6	6 23.2	+20 16	4.0
Nov. 1	U	4 33.2	7 14 8	+70.01	149.02	+17 32.7	− 6.0	7 12.5	+16 43	3.6
	O	17 0.5	7 43 29	+68.87	144.32	+16 13.2	− 7.2	7 26.2	+17 18	5.6

Oct. 14 20h Apogaeum. Oct. 27 16h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Nov. 1.0	7 3 10.42	28 36.82	+17 57 58.5	−1 11 7.8	8.23370	−337	16 2.8
1.5	7 31 47.24	27 46.62	16 46 50.7	1 24 15.7	8.23033	337	15 55.3
2.0	7 59 33.86	26 57.13	15 22 35.0	1 35 22.1	8.22696	333	15 47.9
2.5	8 26 30.99	26 10.11	13 47 12.9	1 44 31.6	8.22363	323	15 40.7
3.0	8 52 41.10	25 26.88	12 2 41.3	1 51 51.1	8.22040	309	15 33.7
3.5	9 18 7.98	24 48.39	10 10 50.2	1 57 29.0	8.21731	291	15 27.1
4.0	9 42 56.37	24 15.16	8 13 21.2	2 1 33.8	8.21440	272	15 20.9
4.5	10 7 11.53	23 47.55	6 11 47.4	2 4 12.8	8.21168	251	15 15.2
5.0	10 30 59.08	23 25.60	4 7 34.6	2 5 33.1	8.20917	229	15 9.9
5.5	10 54 24.68	23 9.25	+ 2 2 1.5	−2 5 40.5	8.20688	−207	15 5.1
6.0	11 17 33.93	22 58.32	− 0 3 39.0	2 4 38.7	8.20481	184	15 0.8
6.5	11 40 32.25	22 52.57	2 8 17.7	2 2 30.7	8.20297	161	14 57.0
7.0	12 3 24.82	22 51.54	4 10 48.4	1 59 19.3	8.20136	140	14 53.7
7.5	12 26 16.36	22 54.88	6 10 7.7	1 55 5.2	8.19996	119	14 50.8
8.0	12 49 11.24	23 2.06	8 5 12.9	1 49 49.6	8.19877	100	14 48.4
8.5	13 12 13.30	23 12.56	9 55 2.5	1 43 32.9	8.19777	80	14 46.3
9.0	13 35 25.86	23 25.70	11 38 35.4	1 36 16.1	8.19697	62	14 44.7
9.5	13 58 51.56	23 40.80	13 14 51.5	1 28 0.2	8.19635	44	14 43.4
10.0	14 22 32.36	23 57.15	14 42 51.7	1 18 47.0	8.19591	27	14 42.5
10.5	14 46 29.51	24 13.92	16 1 38.7	−1 8 39.9	8.19564	− 9	14 42.0
11.0	15 10 43.43	24 30.34	−17 10 18.6	0 57 42.3	8.19555	+ 7	14 41.8
11.5	15 35 13.77	24 45.59	18 8 0.9	0 45 59.7	8.19562	25	14 41.9
12.0	15 59 59.36	24 59.02	18 54 0.6	0 33 38.5	8.19587	42	14 42.4
12.5	16 24 58.38	25 10.00	19 27 39.1	0 20 46.6	8.19629	61	14 43.3
13.0	16 50 8.38	25 18.19	19 48 25.7	−0 7 31.9	8.19690	80	14 44.5
13.5	17 15 26.57	25 23.36	19 55 57.6	+0 5 55.7	8.19770	101	14 46.2
14.0	17 40 49.93	25 25.52	19 50 1.9	0 19 27.1	8.19871	121	14 48.2
14.5	18 6 15.45	25 24.97	19 30 34.8	0 32 52.9	8.19992	143	14 50.7
15.0	18 31 40.42	25 22.17	18 57 41.9	0 46 4.6	8.20135	166	14 53.7
15.5	18 57 2.59	25 17.77	18 11 37.3	+0 58 53.5	8.20301	+190	14 57.1
16.0	19 22 20.36	25 12.61	−17 12 43.8	1 11 13.0	8.20491	213	15 1.0
16.5	19 47 32.97	25 7.58	16 1 30.8	1 22 55.9	8.20704	237	15 5.4
17.0	20 12 40.55	25 3.49	14 38 34.9	1 33 56.6	8.20941	260	15 10.4
17.5	20 37 44.04	25 1.32	13 4 38.3	1 44 9.2	8.21201	282	15 15.9
18.0	21 2 45.36	25 1.91	11 20 29.1	1 53 27.9	8.21483	301	15 21.8
18.5	21 27 47.27	25 6.09	9 27 1.2	2 1 46.2	8.21784	318	15 28.2
19.0	21 52 53.36	25 14.49	7 25 15.0	2 8 57.5	8.22102	332	15 35.1
19.5	22 18 7.85	25 27.72	5 16 17.5	2 14 52.3	8.22434	341	15 42.3
20.0	22 43 35.57	25 46.29	3 1 25.2	2 19 21.6	8.22775	344	15 49.7
20.5	23 9 21.86		− 0 42 3.6		8.23119		15 57.2

Nov. 2 20^h $18^m.0$ Letzt. Viert. Nov. 10 20^h $27^m.8$ Neumond. Nov. 18 21^h $17^m.0$ Erst. Viert.

Im Meridian von Berlin.

Datum und Culmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Decl.	Bew. in 1^h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Nov. 1	U	4 33.2	7 14 8	+70.01	149.02	+17 32.7	— 6.0	7 12.5	+16 43	3.6
	O	17 0.5	7 43 29	+68.87	144.32	+16 13.2	— 7.2	7 26.2	+17 18	5.6
2	U	5 26.9	8 11 54	+67.74	139.70	+14 40.6	— 8.2	8 12.7	+15 59	6.5
	O	17 52.4	8 39 25	+66.64	135.33	+12 57.1	— 9.0	8 21.3	+12 59	5.6
3	U	6 17.0	9 6 5	+65.61	131.35	+11 4.9	— 9.6	9 2.4	+11 4	5.0
	O	18 40.9	9 32 1	+64.68	127.82	+ 9 6.0	—10.1	9 23.2	+ 9 29	5.6
4	U	7 4.1	9 57 17	+63.87	124.81	+ 7 2.2	—10.5	9 55.0	+ 8 31	5.0
	O	19 26.8	10 22 0	+63.19	122.34	+ 4 54.9	—10.7	10 7.7	+ 5 6	6.0
5	U	7 49.1	10 46 17	+62.64	120.42	+ 2 45.8	—10.8	10 40.1	+ 3 1	6.5
	O	20 11.0	11 10 13	+62.23	119.02	+ 0 36.3	—10.8	10 50.7	+ 1 16	6.0
6	U	8 32.7	11 33 56	+61.96	118.13	— 1 32.6	—10.7			
	O	20 54.2	11 57 31	+61.82	117.71	— 3 39.5	—10.5			
7	U	9 15.7	12 21 3	+61.78	117.74	— 5 43.2	—10.2			
	O	21 37.3	12 44 38	+61.86	118.16	— 7 42.8	— 9.8			
8	U	9 59.0	13 8 20	+62.03	118.93	— 9 37.0	— 9.3			
	O	22 20.8	13 32 13	+62.29	119.99	—11 24.7	— 8.7			
9	U	10 42.9	13 56 20	+62.61	121.28	—13 4.9	— 8.0			
	O	23 5.2	14 20 44	+62.98	122.72	—14 36.5	— 7.2			
10	U	11 27.9	14 45 25	+63.38	124.25	—15 58.4	— 6.4			
	O	23 50.9	15 10 25	—63.78	125.72	—17 9.5	— 5.5			
11	U	12 14.1	15 35 43	—64.17	127.19	—18 9.0	— 4.5			
—		—	—	—	—	—	—			
12	O	0 37.6	16 1 17	—64.53	128.51	—18 56.1	— 3.4			
	U	13 1.4	16 27 7	—64.84	129.63	—19 29.9	— 2.3			
13	O	1 25.4	16 53 8	—65.09	130.50	—19 50.0	— 1.1			
	U	13 49.6	17 19 18	—65.26	131.09	—19 55.9	+ 0.1			
14	O	2 13.8	17 45 33	—65.36	131.38	—19 47.4	+ 1.3			
	U	14 38.0	18 11 50	—65.41	131.40	—19 24.5	+ 2.5			
15	O	3 2.2	18 38 6	—65.39	131.19	—18 47.3	+ 3.7			
	U	15 26.4	19 4 18	—65.33	130.82	—17 56.0	+ 4.8			
16	O	3 50.5	19 30 25	—65.25	130.35	—16 51.2	+ 6.0	19 4.0	—19 58	6.5
	U	16 14.5	19 56 26	—65.15	129.87	—15 33.5	+ 7.0	19 11.9	—19 8	4.9
17	O	4 38.4	20 22 22	—65.07	129.47	—14 3.5	+ 8.0	19 52.4	—15 45	5.0
	U	17 2.2	20 48 14	—65.03	129.24	—12 22.1	+ 8.9	20 15.3	—15 6	6.7
18	O	5 26.0	21 14 5	—65.06	129.27	—10 30.2	+ 9.8	20 47.7	—11 57	6.5
	U	17 49.8	21 39 58	—65.16	129.64	— 8 28.8	+10.5	21 4.3	—11 46	4.6
19	O	6 13.8	22 5 58	—65.36	130.40	— 6 19.1	+11.2	21 32.5	— 8 18	4.8
	U	18 38.0	22 32 10	—65.67	131.63	— 4 2.4	+11.7	21 39.8	— 9 32	5.2
20	O	7 2.5	22 58 40	—66.10	133.37	— 1 40.1	+12.1	22 26.2	— 3 25	6.3
	U	19 27.3	23 25 34	—66.66	135.64	+ 0 46.1	+12.3	22 32.7	— 4 44	5.5

Nov. 11 1^h Apogaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Nov. 20.0	22 43 35.57	25 46.29	− 3 1 25.2	+2 19 21.6	8.22775	+344	15 49.7
20.5	23 9 21.86	26 10.37	− 0 42 3.6	2 22 12.5	8.23119	342	15 57.2
21.0	23 35 32.23	26 40.07	+ 1 40 8.9	2 23 12.1	8.23461	333	16 4.8
21.5	0 2 12.30	27 15.09	4 3 21.0	2 22 6.1	8.23794	315	16 12.2
22.0	0 29 27.39	27 54.83	6 25 27.1	2 18 39.2	8.24109	289	16 19.3
22.5	0 57 22.22	28 38.25	8 44 6.3	2 12 38.7	8.24398	256	16 25.8
23.0	1 26 0.47	29 23.67	10 56 45.0	2 3 53.6	8.24654	214	16 31.6
23.5	1 55 24.14	30 9.02	13 0 38.6	1 52 19.1	8.24868	166	16 36.5
24.0	2 25 33.16	30 51.55	14 52 57.7	1 37 58.5	8.25034	112	16 40.4
24.5	2 56 24.71	31 28.33	16 30 56.2	+1 21 4.0	8.25146	+ 54	16 43.0
25.0	3 27 53.04	31 56.27	+17 52 0.2	1 1 59.2	8.25200	− 7	16 44.2
25.5	3 59 49.31	32 12.79	18 53 59.4	0 41 18.0	8.25193	67	16 44.1
26.0	4 32 2.10	32 15.94	19 35 17.4	+0 19 42.5	8.25126	127	16 42.5
26.5	5 4 18.04	32 5.03	19 54 59.9	−0 2 1.4	8.24999	182	16 39.6
27.0	5 36 23.07	31 40.68	19 52 58.5	0 23 8.2	8.24817	231	16 35.4
27.5	6 8 3.75	31 4.55	19 29 50.3	0 42 58.1	8.24586	274	16 30.1
28.0	6 39 8.30	30 19.34	18 46 52.2	1 0 59.8	8.24312	309	16 23.9
28.5	7 9 27.64	29 28.05	17 45 52.4	1 16 52.6	8.24003	335	16 16.9
29.0	7 38 55.69	28 33.74	16 28 59.8	1 30 25.8	8.23668	354	16 9.4
29.5	8 7 29.43	27 39.16	14 58 34.0	−1 41 38.7	8.23314	−364	16 1.5
30.0	8 35 8.59	26 46.62	+13 16 55.3	1 50 35.7	8.22950	366	15 53.5
30.5	9 1 55.21	25 57.75	11 26 19.6	1 57 26.4	8.22584	360	15 45.5
Dec. 1.0	9 27 52.96	25 13.87	9 28 53.2	2 2 21.7	8.22224	349	15 37.7
1.5	9 53 6.83	24 35.72	7 26 31.5	2 5 34.9	8.21875	334	15 30.2
2.0	10 17 42.55	24 3.65	5 20 56.6	2 7 16.5	8.21541	313	15 23.0
2.5	10 41 46.20	23 37.86	3 13 40.1	2 7 36.1	8.21228	288	15 16.4
3.0	11 5 24.06	23 18.29	+ 1 6 4.0	2 6 43.2	8.20940	262	15 10.4
3.5	11 28 42.35	23 4.74	− 1 0 39.2	2 4 43.8	8.20678	234	15 4.9
4.0	11 51 47.09	22 56.96	3 5 23.0	2 1 42.5	8.20444	205	15 0.0
4.5	12 14 44.05	22 54.51	5 7 5.5	−1 57 42.8	8.20239	−176	14 55.8
5.0	12 37 38.56	22 56.98	− 7 4 48.3	1 52 46.8	8.20063	147	14 52.2
5.5	13 0 35.54	23 3.87	8 57 35.1	1 46 55.1	8.19916	118	14 49.2
6.0	13 23 39.41	23 14.55	10 44 30.2	1 40 8.4	8.19798	90	14 46.7
6.5	13 46 53.96	23 28.35	12 24 38.6	1 32 26.2	8.19708	65	14 44.9
7.0	14 10 22.31	23 44.51	13 57 4.8	1 23 49.6	8.19643	40	14 43.6
7.5	14 34 6.82	24 2.23	15 20 54.4	1 14 18.7	8.19603	− 16	14 42.8
8.0	14 58 9.05	24 20.51	16 35 13.1	1 3 55.1	8.19587	+ 5	14 42.5
8.5	15 22 29.56	24 38.53	17 39 8.2	0 52 42.2	8.19592	25	14 42.6
9.0	15 47 8.09	24 55.37	18 31 50.4	0 40 44.1	8.19617	43	14 43.1
9.5	16 12 3.46		19 12 34.5		8.19660		14 43.9

Nov. 25 14h 11m.2 Vollmond. Dec. 2 10h 43m.1 Letztes Viertel.

Im Meridian von Berlin.

Datum und Culmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Decl.	Bew. in 1^h Länge	Vergl.-Sterne AR.	Decl.	Gr.
		h m	h m s	s	s	° ′	″	h m	° ′	
Nov. 20	O	7 2.5	22 58 40	−66.10	133.37	− 1 40.1	+12.1	22 26.2	− 3 25	6.3
	U	19 27.3	23 25 34	−66.66	135.64	+ 0 46.1	+12.3	22 32.7	− 4 44	5.5
21	O	7 52.7	23 52 59	−67.35	138.45	+ 3 14.2	+12.4	23 21.9	+ 0 43	5.0
	U	20 18.7	0 21 1	−68.16	141.79	+ 5 42.0	+12.3	23 31.4	+ 1 33	5.6
22	O	8 45.4	0 49 45	−69.07	145.58	+ 8 7.1	+11.9	0 27.4	+ 6 25	5.7
	U	21 12.9	1 19 17	−70.05	149.70	+10 26.6	+11.3	0 43.2	+ 6 46	6.0
23	O	9 41.2	1 49 41	−71.06	153.99	+12 37.5	+10.5	1 16.2	+11 1	6.5
	U	22 10.4	2 20 55	−72.04	158.21	+14 36.7	+ 9.4	1 31.9	+11 38	5.6
24	O	10 40.4	2 52 58	−72.92	162.09	+16 20.9	+ 8.0	2 7.7	+14 49	6.2
	U	23 11.1	3 25 44	−73.65	165.29	+17 47.1	+ 6.4	2 25.5	+17 16	6.5
25	O	11 42.3	3 59 2	−74.16	167.50	+18 52.7	+ 4.6	3 25.8	+17 36	6.5
—	—	—	—	—	—	—	—	3 33.3	+20 36	6.2
26	U	0 13.9	4 32 39	+74.39	168.49	+19 35.9	+ 2.6	4 32.5	+20 29	5.8
	O	12 45.5	5 6 20	+74.30	168.04	+19 55.5	+ 0.6	4 40.6	+18 33	6.5
27	U	1 16.9	5 39 48	+73.90	166.21	+19 51.5	− 1.3	5 31.8	+21 5	3.0
	O	13 47.8	6 12 46	+73.22	163.15	+19 24.6	− 3.1	5 46.6	+19 51	6.1
28	U	2 18.0	6 45 1	+72.30	159.10	+18 36.5	− 4.8	6 41.7	+18 18	6.5
	O	14 47.3	7 16 23	+71.21	154.38	+17 29.3	− 6.3	6 56.8	+17 54	6.2
29	U	3 15.7	7 46 47	+70.01	149.32	+16 5.7	− 7.6	7 51.4	+16 3	5.9
	O	15 43.0	8 16 9	+68.79	144.19	+14 28.2	− 8.6	7 55.9	+16 44	6.4
30	U	4 9.3	8 44 31	+67.59	139.25	+12 39.5	− 9.5	8 53.1	+12 14	4.3
	O	16 34.7	9 11 55	+66.45	134.67	+10 42.2	−10.1	9 2.5	+11 4	5.0
Dec. 1	U	4 59.2	9 38 27	+65.41	130.57	+ 8 38.5	−10.5	9 41.0	+ 7 10	6.0
	O	17 22.9	10 4 13	+64.50	127.04	+ 6 30.5	−10.8	9 48.6	+ 6 25	6.5
2	U	5 46.0	10 29 20	+63.72	124.08	+ 4 19.9	−11.0	10 17.9	+ 7 3	6.5
	O	18 8.6	10 53 55	+63.09	121.73	+ 2 8.3	−11.0	10 40.1	+ 3 1	6.5
3	U	6 30.7	11 18 5	+62.61	119.97	− 0 2.9	−10.9	11 25.3	− 2 27	5.1
	O	18 52.5	11 41 57	+62.27	118.77	− 2 12.4	−10.7	11 31.9	− 0 17	4.5
4	U	7 14.2	12 5 38	+62.07	118.12	− 4 19.2	−10.4	12 1.0	− 2 35	6.4
	O	19 35.7	12 29 14	+62.00	117.96	− 6 22.1	−10.1	12 18.2	− 4 25	6.5
5	U	7 57.3	12 52 51	+62.04	118.26	− 8 20.2	− 9.6	12 49.3	− 9 0	5.0
	O	20 19.0	13 16 34	+62.20	118.96	−10 12.4	− 9.1	13 2.8	−10 13	5.2
6	U	8 40.9	13 40 27	+62.45	120.02	−11 57.7	− 8.5			
	O	21 3.0	14 4 34	+62.76	121.34	−13 35.1	− 7.8			
7	U	9 25.3	14 28 59	+63.14	122.88	−15 3.7	− 7.0			
	O	21 48.0	14 53 43	+63.55	124.54	−16 22.4	− 6.1			
8	U	10 11.1	15 18 47	+63.96	126.22	−17 30.2	− 5.2			
	O	22 34.4	15 44 11	+64.36	127.85	−18 26.2	− 4.2			
9	U	10 58.1	16 9 54	+64.73	129.33	−19 9.6	− 3.1			
	O	23 22.1	16 35 54	+65.04	130.58	−19 39.5	− 1.9			

Nov. 25 5^h Perigaeum. Dec. 8 3^h Apogaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Dec. 9.0	15 47 8.09		−18 31 50.4		8.19617		14 43.1
		24 55.37		−0 40 44.1		+43	
9.5	16 12 3.46		19 12 34.5		8.19660		14 43.9
		25 10.09		0 28 7.3		60	
10.0	16 37 13.55		19 40 41.8		8.19720		14 45.1
		25 22.02		0 14 59.5		76	
10.5	17 2 35.57		19 55 41.3		8.19796		14 46.7
		25 30.62		−0 1 29.7		91	
11.0	17 28 6.19		19 57 11.0		8.19887		14 48.6
		25 35.59		+0 12 11.1		104	
11.5	17 53 41.78		19 44 59.9		8.19991		14 50.7
		25 36.85		0 25 52.6		119	
12.0	18 19 18.63		19 19 7.3		8.20110		14 53.1
		25 34.69		0 39 23.2		132	
12.5	18 44 53.32		18 39 44.1		8.20242		14 55.9
		25 29.61		0 52 32.2		145	
13.0	19 10 22.93		17 47 11.9		8.20387		14 58.9
		25 22.25		1 5 9.9		159	
13.5	19 35 45.18		16 42 2.0		8.20546		15 2.2
		25 13.60		+1 17 7.5		+173	
14.0	20 0 58.78		−15 24 54.5		8.20719		15 5.8
		25 4.57		1 28 17.2		186	
14.5	20 26 3.35		13 56 37.3		8.20905		15 9.7
		24 56.18		1 38 33.2		201	
15.0	20 50 59.53		12 18 4.1		8.21106		15 13.9
		24 49.43		1 47 49.5		215	
15.5	21 15 48.96		10 30 14.6		8.21321		15 18.4
		24 45.29		1 56 2.1		229	
16.0	21 40 34.25		8 34 12.5		8.21550		15 23.2
		24 44.62		2 3 6.3		242	
16.5	22 5 18.87		6 31 6.2		8.21792		15 28.4
		24 48.14		2 8 57.1		254	
17.0	22 30 7.01		4 22 9.1		8.22046		15 33.9
		24 56.48		2 13 30.1		265	
17.5	22 55 3.49		− 2 8 39.0		8.22311		15 39.6
		25 10.23		2 16 39.1		274	
18.0	23 20 13.72		+ 0 8 0.1		8.22585		15 45.5
		25 29.67		2 18 16.6		280	
18.5	23 45 43.39		2 26 16.7		8.22865		15 51.6
		25 54.92		+2 18 13.3		+281	
19.0	0 11 38.31		+ 4 44 30.0		8.23146		15 57.8
		26 25.98		2 16 20.1		278	
19.5	0 38 4.29		7 0 50.1		8.23424		16 4.0
		27 2.38		2 12 25.8		270	
20.0	1 5 6.67		9 13 15.9		8.23694		16 10.0
		27 43.38		2 6 20.5		256	
20.5	1 32 50.05		11 19 36.4		8.23950		16 15.7
		28 27.73		1 57 54.2		236	
21.0	2 1 17.78		13 17 30.6		8.24186		16 21.0
		29 13.68		1 47 0.2		209	
21.5	2 30 31.46		15 4 30.8		8.24395		16 25.8
		29 58.91		1 33 37.0		177	
22.0	3 0 30.37		16 38 7.8		8.24572		16 29.8
		30 40.71		1 17 51.1		137	
22.5	3 31 11.08		17 55 58.9		8.24709		16 32.9
		31 16.11		0 59 55.9		92	
23.0	4 2 27.19		18 55 54.8		8.24801		16 35.0
		31 42.25		0 40 16.1		+ 43	
23.5	4 34 9.44		19 36 10.9		8.24844		16 36.0
		31 56.64		+0 19 25.3		− 9	
24.0	5 6 6.08		+19 55 36.2		8.24835		16 35.8
		31 57.88		−0 1 56.4		61	
24.5	5 38 3.96		19 53 39.8		8.24774		16 34.4
		31 45.55		0 23 5.1		115	
25.0	6 9 49.51		19 30 34.7		8.24659		16 31.8
		31 20.48		0 43 19.2		165	
25.5	6 41 9.99		18 47 15.5		8.24494		16 28.0
		30 44.57		1 2 1.0		211	
26.0	7 11 54.56		17 45 14.5		8.24283		16 23.2
		30 0.52		1 18 42.4		253	
26.5	7 41 55.08		16 26 32.1		8.24030		16 17.5
		29 11.22		1 33 5.6		288	
27.0	8 11 6.30		14 53 26.5		8.23742		16 11.0
		28 19.62		1 45 1.6		315	
27.5	8 39 25.92		13 8 24.9		8.23427		16 4.0
		27 28.18		1 54 30.8		335	
28.0	9 6 54.10		11 13 54.1		8.23092		15 56.6
		26 39.04		2 1 39.6		347	
28.5	9 33 33.14		9 12 14.5		8.22745		15 49.0

Dec. 10 15h 46.7m Neumond. Dec. 18 9h 28.8m Erst. Viert. Dec. 25 1h 9.5m Vollmond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Gr.
	h m	h m s	s	s	° ′	′	h m	° ′	
Dec. 9 U	10 58.1	16 9 54	+64.73	129.33	−19 9.6	− 3.1			
O	23 22.1	16 35 54	+65.04	130.58	−19 39.5	− 1.9			
10 U	11 46.3	17 2 7	+65.29	131.53	−19 55.5	− 0.7			
—	—	—	—	—	—	—			
11 O	0 10.6	17 28 29	−65.44	132.14	−19 57.1	+ 0.5			
U	12 35.0	17 54 56	−65.52	132.41	−19 44.1	+ 1.7			
12 O	0 59.4	18 21 25	−65.52	132.36	−19 16.4	+ 2.9			
U	13 23.8	18 47 52	−65.45	131.99	−18 34.3	+ 4.1			
13 O	1 48.1	19 14 12	−65.32	131.38	−17 38.2	+ 5.2			
U	14 12.3	19 40 24	−65.14	130.61	−16 28.7	+ 6.3			
14 O	2 36.3	20 6 26	−64.97	129.78	−15 6.7	+ 7.3			
U	15 0.1	20 32 18	−64.79	128.97	−13 32.9	+ 8.3			
15 O	3 23.8	20 58 1	−64.65	128.30	−11 48.4	+ 9.1			
U	15 47.4	21 23 38	−64.57	127.86	− 9 54.4	+ 9.9			
16 O	4 10.9	21 49 12	−64.57	127.72	− 7 52.1	+10.5	21 19.9	−10 10	5.7
U	16 34.5	22 14 46	−64.66	127.98	− 5 42.6	+11.0	21 32.5	− 8 18	4.8
17 O	4 58.1	22 40 25	−64.87	128.70	− 3 27.4	+11.5	22 12.0	− 5 53	5.9
U	17 21.9	23 6 16	−65.20	129.91	− 1 7.8	+11.8	22 19.0	− 5 20	5.8
18 O	5 46.0	23 32 26	−65.67	131.67	+ 1 14.4	+11.9	22 55.6	− 0 21	6.5
U	18 10.5	23 59 0	−66.27	133.99	+ 3 37.5	+11.9	23 21.9	+ 0 43	5.0
19 O	6 35.6	0 26 6	−66.99	136.87	+ 5 59.7	+11.7	23 48.1	+ 1 32	6.3
U	19 1.3	0 53 49	−67.84	140.29	+ 8 18.9	+11.4	0 15.6	+ 7 38	5.6
20 O	7 27.7	1 22 16	−68.78	144.14	+10 32.7	+10.9	0 43.6	+ 7 3	4.6
U	19 54.9	1 51 31	−69.78	148.31	+12 38.5	+10.1	0 57.9	+ 7 21	4.5
21 O	8 23.0	2 21 38	−70.81	152.64	+14 33.6	+ 9.1	1 54.2	+11 49	6.2
U	20 51.9	2 52 36	−71.78	156.86	+16 15.1	+ 7.8	1 57.3	+13 0	6.5
22 O	9 21.6	3 24 23	−72.65	160.70	+17 40.3	+ 6.3	2 50.9	+17 38	5.5
U	21 52.0	3 56 52	−73.35	163.84	+18 46.7	+ 4.7	2 59.3	+15 28	6.5
23 O	10 23.0	4 29 52	−73.83	165.98	+19 32.0	+ 2.9	3 59.6	+21 45	6.5
U	22 54.2	5 3 11	−74.01	166.90	+19 54.7	+ 0.9	4 3.5	+19 21	5.8
24 O	11 25.5	5 36 33	−73.90	166.49	+19 54.2	− 1.0	5 3.1	+19 44	6.5
U	23 56.6	6 9 41	−73.48	164.75	+19 30.7	− 2.9	5 13.4	+22 0	5.2
25 O	12 27.2	6 42 20	+72.79	161.69	+18 45.3	− 4.7	6 9.1	+19 11	5.1
—	—	—	—	—	—	—	6 23.2	+20 16	4.0
26 U	0 57.2	7 14 19	+71.90	157.82	+17 39.6	− 6.2	7 12.5	+16 43	3.6
O	13 26.3	7 45 28	+70.84	153.32	+16 16.1	− 7.6	7 26.2	+17 18	5.6
27 U	1 54.4	8 15 40	+69.70	148.52	+14 37.5	− 8.8	8 12.7	+15 59	6.5
O	14 21.6	8 44 54	+68.54	143.67	+12 46.6	− 9.7	8 21.3	+12 59	5.6
28 U	2 47.8	9 13 11	+67.41	139.02	+10 46.1	−10.4	9 2.5	+11 4	5.0
O	15 13.2	9 40 34	+66.35	134.73	+ 8 38.6	−10.8	9 23.2	+ 9 29	5.6

Dec. 23 16h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Dec. 28.0	9ʰ 6ᵐ 54.10ˢ	26ᵐ 39.04ˢ	+11° 13′ 54.1″	−2° 1′ 39.6″	8.23092	−347	15′ 56.6″
28.5	9 33 33.14	25 53.69	9 12 14.5	2 6 38.0	8.22745	352	15 49.0
29.0	9 59 26.83	25 13.30	7 5 36.5	2 9 38.9	8.22393	349	15 41.4
29.5	10 24 40.13	24 38.43	4 55 57.6	2 10 55.6	8.22044	339	15 33.8
30.0	10 49 18.56	24 9.55	2 45 2.0	2 10 40.2	8.21705	324	15 26.5
30.5	11 13 28.11	23 46.67	+ 0 34 21.8	2 9 4.2	8.21381	304	15 19.7
31.0	11 37 14.78	23 29.80	− 1 34 42.4	2 6 16.2	8.21077	280	15 13.3
31.5	12 0 44.58	23 18.70	3 40 58.6	2 2 24.7	8.20797	252	15 7.4
32.0	12 24 3.28		5 43 23.3		8.20545		15 2.1

Phasen des Mondes.

Jan.	4	13ʰ 7.1ᵐ	Vollmond
	12	9 31.8	Letztes Viertel
	20	3 29.4	Neumond
	26	22 45.8	Erstes Viertel
Febr.	3	4 23.4	Vollmond
	11	7 5.6	Letztes Viertel
	18	15 38.8	Neumond
	25	7 31.8	Erstes Viertel
März	4	20 58.0	Vollmond
	13	1 59.8	Letztes Viertel
	20	1 46.6	Neumond
	26	17 32.5	Erstes Viertel
April	3	14 13.8	Vollmond
	11	16 50.7	Letztes Viertel
	18	10 31.0	Neumond
	25	5 8.5	Erstes Viertel
Mai	3	7 12.5	Vollmond
	11	3 31.6	Letztes Viertel
	17	18 31.2	Neumond
	24	18 33.2	Erstes Viertel
Juni	1	22 46.3	Vollmond
	9	10 53.5	Letztes Viertel
	16	2 26.5	Neumond
	23	9 52.5	Erstes Viertel

Juli	1	12ʰ 11.2ᵐ	Vollmond
	8	16 13.5	Letztes Viertel
	15	11 4.1	Neumond
	23	2 51.8	Erstes Viertel
	30	23 27.3	Vollmond
Aug.	6	20 55.5	Letztes Viertel
	13	21 21.1	Neumond
	21	20 45.6	Erstes Viertel
	29	9 14.7	Vollmond
Sept.	5	2 20.8	Letztes Viertel
	12	10 12.1	Neumond
	20	14 26.9	Erstes Viertel
	27	18 29.3	Vollmond
Oct.	4	9 45.8	Letztes Viertel
	12	2 4.9	Neumond
	20	6 51.2	Erstes Viertel
	27	3 59.9	Vollmond
Nov.	2	20 18.0	Letztes Viertel
	10	20 27.8	Neumond
	18	21 17.0	Erstes Viertel
	25	14 11.2	Vollmond
Dec.	2	10 43.1	Letztes Viertel
	10	15 46.7	Neumond
	18	9 28.8	Erstes Viertel
	25	1 9.5	Vollmond

Im Meridian von Berlin.

Datum und Culmination			Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Decl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Decl.	Vergl.-Sterne Gr.
			h m	h m s	s	s	° ′	′	h m	° ′	
Dec.	28	U	2 47.8	9 13 11	+67.41	139.02	+10 46.1	−10.4	9 2.5	+11 4	5.0
		O	15 13.2	9 40 34	+66.35	134.73	+ 8 38.6	−10.8	9 23.2	+ 9 29	5.6
	29	U	3 37.7	10 7 8	+65.40	130.89	+ 6 26.6	−11.1	10 7.7	+ 5 6	6.0
		O	16 1.5	10 33 0	+64.58	127.60	+ 4 12.1	−11.3	10 17.9	+ 7 3	6.5
	30	U	4 24.8	10 58 15	+63.88	124.87	+ 1 56.9	−11.3	10 58.6	+ 0 32	6.2
		O	16 47.5	11 23 0	+63.32	122.71	− 0 17.4	−11.1	11 1.9	+ 2 30	5.7
	31	U	5 9.8	11 47 23	+62.91	121.14	− 2 29.5	−10.9	11 46.0	− 4 47	5.7
		O	17 31.9	12 11 30	+62.63	120.09	− 4 37.9	−10.5	12 1.0	− 2 35	6.4

Mond im Apogaeum

		h
Jan.	12	0
Febr.	8	20
März	8	13
April	4	19
Mai	1	21
	29	6
Juni	25	22
Juli	23	16
Aug.	20	11
Sept.	17	6
Oct.	14	20
Nov.	11	1
Dec.	8	3

Mond im Perigaeum

		h
Jan.	24	0
Febr.	20	16
März	20	23
April	18	10
Mai	16	20
Juni	14	0
Juli	11	13
Aug.	5	21
Sept.	1	8
	29	7
Oct.	27	16
Nov.	25	5
Dec.	23	16

Krater im Meridian.

Datum	Physische Libration in selenoc. Länge	Physische Libration in selenoc. Breite	Reduction für Meridianbeobachtungen in AR. $\alpha_{☾} - \alpha_k$	Diff.		in Decl. $\delta_{☾} - \delta_k$	Diff.		Parallaxe lg. sin p_k	Diff.
	′	′	s	s	s	″	″	″		
Jan. 1	−0.6	−1.2	−10.02	−1.05		+ 20.0	+39.9		8.23683	−237
2	0.6	1.2	−11.07	−0.23	+0.82	+ 59.9	41.2	+ 1.3	23446	336
3	0.6	1.2	−11.30	+0.62	0.85	+101.1	37.4	− 3.8	23110	426
4	0.6	1.2	−10.68	1.23	0.61	+138.5	29.5	7.9	22684	490
5	0.6	1.2	− 9.45	1.51	0.28	+168.0	19.3	10.2	22194	519
6	0.5	1.2	− 7.94	1.56	+0.05	+187.3	+ 8.4	10.9	21675	508
7	0.4	1.2	− 6.38	1.44	−0.12	+195.7	− 1.4	9.8	21167	457
8	0.3	1.2	− 4.94	1.25	0.19	+194.3	9.7	8.3	20710	368
9	0.2	1.2	− 3.69	1.04	0.21	+184.6	16.1	6.4	20342	249
10	−0.1	1.2	− 2.65	0.84	0.20	+168.5	21.0	4.9	20093	−113
11	0.0	1.2	− 1.81	+0.67	−0.17	+147.5	−24.1	3.1	19980	+ 36
12	+0.2	1.2	− 1.14			+123.4			20016	
Jan. 27	+0.5	−1.1	− 9.12	−1.53		− 25.6	+33.2		8.23655	−257
28	0.4	1.1	−10.65	0.91	+0.62	+ 7.6	39.0	+ 5.8	23398	291
29	0.4	1.1	−11.56	−0.10	0.81	+ 46.6	40.7	+ 1.7	23107	322
30	0.4	1.1	−11.66	+0.68	0.78	+ 87.3	37.9	− 2.8	22785	353
31	0.4	1.1	−10.98	1.26	0.58	+125.2	31.1	6.8	22432	379
Febr. 1	0.4	1.1	− 9.72	1.55	0.29	+156.3	21.7	9.4	22053	398
2	0.4	1.1	− 8.17	1.58	+0.03	+178.0	11.8	9.9	21655	405
3	0.5	1.1	− 6.59	1.44	−0.14	+189.8	+ 1.9	9.9	21250	391
4	0.6	1.1	− 5.15	1.24	0.20	+191.7	− 6.7	8.6	20859	354
5	0.7	1.1	− 3.91	1.03	0.21	+185.0	13.8	7.1	20505	292
6	0.8	1.1	− 2.88	0.84	0.19	+171.2	19.6	5.8	20213	201
7	0.9	1.1	− 2.04	0.71	0.13	+151.6	23.4	3.8	20012	− 86
8	1.0	1.1	− 1.33	0.64	0.07	+128.2	25.8	2.4	19926	+ 47
9	1.2	1.1	− 0.69	0.61	−0.03	+102.4	26.7	− 0.9	19973	189
10	1.3	1.1	− 0.08	+0.61	0.00	+ 75.7	−26.4	+ 0.3	20162	+334
11	1.4	1.1	+ 0.53			+ 49.3			20496	
Febr. 25	+1.2	−1.0	−12.90	−0.29		+ 35.3	+42.2		8.23355	−491
26	1.2	1.0	−13.19	+0.67	+0.96	+ 77.5	40.0	− 2.2	22864	481
27	1.2	1.0	−12.52	1.36	0.69	+117.5	33.4	6.6	22383	453
28	1.2	1.0	−11.16	1.73	0.37	+150.9	24.1	9.3	21930	420
März 1	1.2	1.0	− 9.43	1.79	+0.06	+175.0	14.0	10.1	21510	386
2	1.2	1.0	− 7.64	1.64	−0.15	+189.0	+ 4.2	9.8	21124	348
3	1.3	1.0	− 6.00	1.39	0.25	+193.2	− 4.7	8.9	20776	308
4	1.4	1.0	− 4.61	1.12	0.27	+188.5	12.0	7.3	20468	261
5	1.4	1.0	− 3.49	0.89	0.23	+176.5	18.2	6.2	20207	202
6	1.5	1.0	− 2.60	0.71	0.18	+158.3	22.7	4.5	20005	130
7	1.6	1.0	− 1.89	0.63	−0.08	+135.6	25.8	3.1	19875	− 41
8	1.8	1.0	− 1.26		0.00	+109.8		− 1.6	19834	+ 67

Krater im Meridian.

Datum	Physische Libration in selenoc. Länge	Physische Libration in selenoc. Breite	Reduction für Meridianbeobachtungen in AR. $\alpha_{☾} - \alpha_k$	Diff.		in Decl. $\delta_{☾} - \delta_k$	Diff.		Parallaxe lg. sin p_k	Diff.
	′	′	s	s	s	″	″	″		
März 8	+1.8	—1.0	— 1.26	+0.63	0.00	+109.8	−27.4	− 1.6	8.19834	+ 67
9	1.9	1.0	— 0.63	0.70	+0.07	+ 82.4	27.3	+ 0.1	19901	188
10	2.0	1.0	+ 0.07	0.81	0.11	+ 55.1	25.8	1.5	20089	321
11	2.0	1.0	+ 0.88	+0.87	+0.06	+ 29.3	−22.4	+ 3.4	20410	+451
12	2.1	1.0	+ 1.75			+ 6.9			20861	
März 27	+1.6	—0.9	—12.96	+1.70		+147.5	+28.1		8.22320	−587
28	1.5	0.9	—11.26	1.92	+0.22	+175.6	17.2	−10.9	21733	512
29	1.5	0.9	— 9.34	1.84	−0.08	+192.8	+ 6.7	10.5	21221	434
30	1.6	0.9	— 7.50	1.60	0.24	+199.5	− 2.8	9.5	20787	351
31	1.6	0.9	— 5.90	1.30	0.30	+196.7	10.6	7.8	20436	275
April 1	1.6	0.9	— 4.60	1.02	0.28	+186.1	17.1	6.5	20161	200
2	1.7	0.9	— 3.58	0.77	0.25	+169.0	22.0	4.9	19961	129
3	1.8	0.9	— 2.81	0.62	0.15	+147.0	25.8	3.8	19832	− 58
4	1.9	0.9	— 2.19	0.58	−0.04	+121.2	27.9	2.1	19774	+ 19
5	2.0	0.9	— 1.61	0.63	+0.05	+ 93.3	28.7	− 0.8	19793	111
6	2.1	0.9	— 0.98	0.78	0.15	+ 64.6	27.6	+ 1.1	19904	188
7	2.2	0.9	— 0.20	0.94	0.16	+ 37.0	24.9	2.7	20092	300
8	2.2	0.9	+ 0.74	1.05	+0.11	+ 12.1	20.7	4.2	20392	410
9	2.3	0.9	+ 1.79	1.00	−0.05	— 8.6	15.7	5.0	20802	521
10	2.3	0.9	+ 2.79	+0.77	−0.23	— 24.3	−10.6	+ 5.1	21323	+618
11	2.3	0.9	+ 3.56			— 34.9			21941	
April 26	+1.4	—0.8	— 9.06	+1.70		+206.1	+ 0.1		8.21190	−501
27	1.4	0.8	— 7.36	1.43	−0.27	+206.2	− 8.5	− 8.6	20689	387
28	1.4	0.8	— 5.93	1.14	0.29	+197.7	15.6	7.1	20302	276
29	1.5	0.8	— 4.79	0.87	0.27	+182.1	21.4	5.8	20026	173
30	1.5	0.8	— 3.92	0.66	0.21	+160.7	25.5	4.1	19853	− 77
Mai 1	1.6	0.8	— 3.26	0.56	0.10	+135.2	28.0	2.5	19776	+ 6
2	1.7	0.8	— 2.70	0.55	−0.01	+107.2	29.6	− 1.6	19782	83
3	1.8	0.8	— 2.15	0.63	+0.08	+ 77.6	29.3	+ 0.3	19865	156
4	1.8	0.8	— 1.52	0.82	0.19	+ 48.3	27.4	1.9	20021	226
5	1.9	0.8	— 0.70	0.98	0.16	+ 20.9	23.7	3.7	20247	300
6	1.9	0.8	+ 0.28	1.07	+0.09	— 2.8	18.9	4.8	20547	374
7	2.0	0.8	+ 1.35	1.01	−0.06	— 21.7	13.2	5.7	20921	453
8	2.0	0.8	+ 2.36	0.75	0.26	— 34.9	7.7	5.5	21374	526
9	2.0	0.8	+ 3.11	+0.33	−0.42	— 42.6	− 3.2	+ 4.5	21900	+589
10	1.9	0.8	+ 3.44			— 45.8			22489	
Mai 25	+0.8	—0.7	— 7.00	+1.17		+206.3	−13.2		8.20754	−422
26	0.8	0.7	— 5.83	0.93	−0.24	+193.1	19.7	− 6.5	20332	290
27	0.9	0.7	— 4.90	0.72	0.21	+173.4	24.6	4.9	20042	161
28	0.9	0.7	— 4.18		−0.15	+148.8		− 3.2	19881	− 43

Krater im Meridian.

Datum		Physische Libration in selenoc. Länge	Physische Libration in selenoc. Breite	Reduction für Meridianbeobachtungen in AR. $\alpha_{☾} - \alpha_k$	Diff.		in Decl. $\delta_{☾} - \delta_k$	Diff.		Parallaxe lg. sin p_k	Diff.
		′	′	s	s	s	″	″	″		
Mai	28	+0.9	−0.7	−4.18	+0.57	−0.15	+148.8	−27.8	−3.2	8.19881	− 43
	29	1.0	0.7	−3.61	0.50	−0.07	+121.0	29.7	1.9	19838	+ 64
	30	1.0	0.7	−3.11	0.55	+0.05	+ 91.3	30.2	−0.5	19902	151
	31	1.1	0.7	−2.56	0.65	0.10	+ 61.1	29.1	+1.1	20053	224
Juni	1	1.2	0.7	−1.91	0.81	0.16	+ 32.0	26.2	2.9	20277	284
	2	1.2	0.7	−1.10	0.92	0.11	+ 5.8	22.0	4.2	20561	328
	3	1.2	0.7	−0.18	0.95	+0.03	− 16.2	16.7	5.3	20889	369
	4	1.2	0.7	+0.77	0.81	−0.14	− 32.9	11.0	5.7	21258	405
	5	1.2	0.7	+1.58	0.53	0.28	− 43.9	5.6	5.4	21663	438
	6	1.2	0.7	+2.11	+0.13	0.40	− 49.5	− 1.1	4.5	22101	466
	7	1.1	0.7	+2.24	−0.37	−0.50	− 50.6	+ 2.7	+3.8	22567	+486
	8	1.0	0.6	+1.87			− 47.9			23053	
Juni	24	0.0	−0.6	−4.79	+0.58		+159.1	−27.0		8.20117	−152
	25	0.0	0.6	−4.21	0.52	−0.06	+132.1	29.4	−2.4	19965	− 13
	26	+0.1	0.6	−3.69	0.53	+0.01	+102.7	30.4	−1.0	19952	+115
	27	0.1	0.6	−3.16	0.59	0.06	+ 72.3	29.7	+0.7	20067	220
	28	0.2	0.6	−2.57	0.71	0.12	+ 42.6	27.5	2.2	20287	304
	29	0.2	0.6	−1.86	0.79	0.08	+ 15.1	24.0	3.5	20591	368
	30	0.3	0.6	−1.07	0.80	+0.01	− 8.9	19.3	4.7	20959	399
Juli	1	0.3	0.5	−0.27	0.69	−0.11	− 28.2	14.0	5.3	21358	410
	2	0.3	0.5	+0.42	0.44	0.25	− 42.2	8.8	5.2	21768	402
	3	0.2	0.5	+0.86	+0.10	0.34	− 51.0	− 3.9	4.9	22170	386
	4	0.2	0.5	+0.96	−0.31	0.41	− 54.9	+ 0.4	4.3	22556	360
	5	+0.1	0.5	+0.65	0.74	0.43	− 54.5	4.6	4.2	22916	329
	6	0.0	0.5	−0.09	1.17	0.43	− 49.9	8.9	4.3	23245	293
	7	−0.1	0.5	−1.26	−1.59	−0.41	− 41.0	+13.2	+4.3	23538	+254
	8	0.2	0.5	−2.85			− 27.8			23792	
Juli	23	−0.9	−0.5	−2.93	+0.55		+111.4	−30.2		8.20016	+ 14
	24	0.8	0.4	−2.38	0.63	+0.08	+ 81.2	30.1	+0.1	20030	155
	25	0.8	0.4	−1.75	0.75	0.12	+ 51.1	28.3	1.8	20185	283
	26	0.7	0.4	−1.00	0.82	+0.07	+ 22.8	24.8	3.5	20468	389
	27	0.7	0.4	−0.18	0.82	0.00	− 2.0	20.5	4.3	20857	463
	28	0.7	0.4	+0.64	0.66	−0.16	− 22.5	15.5	5.0	21320	500
	29	0.7	0.4	+1.30	+0.39	0.27	− 38.0	10.7	4.8	21820	500
	30	0.7	0.4	+1.69	−0.01	0.40	− 48.7	6.2	4.5	22320	463
	31	0.7	0.4	+1.68	0.45	0.44	− 54.9	− 2.0	4.2	22783	397
Aug.	1	0.8	0.4	+1.23	0.90	0.45	− 56.9	+ 1.8	3.8	23180	313
	2	0.9	0.4	+0.33	1.31	0.41	− 55.1	6.3	4.5	23493	231
	3	1.0	0.4	−0.98	1.65	0.34	− 48.8	11.7	5.4	23724	123
	4	1.1	0.4	−2.63		−0.22	− 37.1		+6.4	23847	+ 50

Krater im Meridian.

Datum	Physische Libration in selenoc.		Reduction für Meridianbeobachtungen							
			in AR.			in Decl.			Parallaxe	
	Länge	Breite	$\alpha_{☾} - \alpha_k$	Diff.		$\delta_{☾} - \delta_k$	Diff.		lg. sin p_k	Diff.
	′	′	s	s	s	″	″	″		
Aug. 4	−1.1	−0.4	− 2.63	−1.87	−0.22	− 37.1	+18.1	+6.4	8.23847	+ 50
5	1.2	0.4	− 4.50	1.87	0.00	− 19.0	25.1	7.0	23897	− 23
6	1.3	0.4	− 6.37	−1.62	+0.25	+ 6.1	+31.7	+6.6	23874	− 89
7	1.4	0.4	− 7.99			+ 37.8			23785	
Aug. 22	−1.5	−0.3	− 1.11	+0.97		+ 28.9	−25.8		8.20197	+324
23	1.5	0.3	− 0.14	1.02	+0.05	+ 3.1	21.2	+4.6	20521	448
24	1.4	0.3	+ 0.88	0.91	−0.11	− 18.1	15.9	5.3	20969	547
25	1.4	0.3	+ 1.79	0.60	0.31	− 34.0	10.7	5.2	21516	608
26	1.4	0.3	+ 2.39	+0.15	0.45	− 44.7	6.3	4.4	22124	616
27	1.4	0.3	+ 2.54	−0.42	0.57	− 51.0	− 2.9	3.4	22740	576
28	1.5	0.3	+ 2.12	1.01	0.59	− 53.9	+ 0.1	3.0	23316	482
29	1.5	0.3	+ 1.11	1.55	0.54	− 53.8	3.5	3.4	23798	352
30	1.6	0.3	− 0.44	2.01	0.46	− 50.3	8.2	4.7	24150	193
31	1.7	0.3	− 2.45	2.28	0.27	− 42.1	14.8	6.6	24343	+ 40
Sept. 1	1.8	0.3	− 4.73	2.31	−0.03	− 27.3	22.8	8.0	24383	−105
2	1.9	0.3	− 7.04	2.00	+0.31	− 4.5	31.0	8.2	24278	221
3	2.0	0.3	− 9.04	1.36	0.64	+ 26.5	37.0	6.0	24057	303
4	2.1	0.3	−10.40	−0.50	+0.86	+ 63.5	+38.9	+1.9	23754	−356
5	2.2	0.3	−10.90			+102.4			23398	
Sept. 21	−1.8	−0.2	+ 1.98	+1.05		− 31.2	−10.9		8.20914	+583
22	1.8	0.2	+ 3.03	0.65	−0.40	− 42.1	5.4	+5.5	21497	672
23	1.8	0.2	+ 3.68	+0.05	0.60	− 47.5	− 1.4	4.0	22169	713
24	1.8	0.2	+ 3.73	−0.63	0.68	− 48.9	+ 1.3	2.7	22882	697
25	1.8	0.2	+ 3.10	1.37	0.74	− 47.6	3.3	2.0	23579	612
26	1.9	0.2	+ 1.73	2.04	0.67	− 44.3	6.1	2.8	24191	466
27	1.9	0.2	− 0.31	2.59	0.55	− 38.2	10.2	4.1	24657	272
28	2.0	0.2	− 2.90	2.89	−0.30	− 28.0	17.8	7.6	24929	+ 53
29	2.1	0.1	− 5.79	2.77	+0.12	− 10.2	26.9	9.1	24982	−157
30	2.2	0.1	− 8.56	2.20	0.57	+ 16.7	35.5	8.6	24825	343
Oct. 1	2.3	0.1	−10.76	1.22	0.98	+ 52.2	40.5	+5.0	24482	469
2	2.4	0.1	−11.98	−0.13	1.09	+ 92.7	39.8	−0.7	24013	544
3	2.4	0.1	−12.11	+0.76	+0.89	+132.5	+33.9	−5.9	23469	−565
4	2.5	0.1	−11.35			+166.4			22904	
Oct. 20	−1.7	−0.1	+ 3.83	+0.74		− 46.7	− 0.4		8.21340	+662
21	1.6	0.0	+ 4.57	+0.09	−0.65	− 47.1	+ 3.6	+4.0	22002	733
22	1.6	0.0	+ 4.66	−0.63	0.72	− 43.5	5.8	2.2	22735	756
23	1.7	0.0	+ 4.03	1.41	0.78	− 37.7	7.3	1.5	23491	712
24	1.7	0.0	+ 2.62	2.17	0.76	− 30.4	9.1	1.8	24203	597
25	1.8	0.0	+ 0.45	2.82	0.65	− 21.3	13.3	4.2	24800	410
26	1.8	0.0	− 2.37		−0.35	− 8.0		+7.0	25210	+170

Krater im Meridian.

Datum		Physische Libration in selenoc.		Reduction für Meridianbeobachtungen							
				in AR.			in Decl.			Parallaxe	
		Länge	Breite	$\alpha_{☾} - \alpha_k$	Diff.		$\delta_{☾} - \delta_k$	Diff.		lg. sin p_k	Diff.
		°	°	s	s	s	"	"	"		
Oct.	26	−1.8	0.0	− 2.37	−3.17	−0.35	− 8.0	+20.3	+ 7.0	8.25210	+170
	27	1.9	0.0	− 5.54	3.05	+0.12	+ 12.3	29.5	9.2	25380	− 90
	28	2.0	0.0	− 8.59	2.36	0.69	+ 41.8	37.8	8.3	25290	332
	29	2.0	0.0	−10.95	1.21	1.15	+ 79.6	41.3	+ 3.5	24958	524
	30	2.1	0.0	−12.16	−0.04	1.17	+120.9	38.3	− 3.0	24434	648
	31	2.2	0.0	−12.20	+0.83	0.87	+159.2	30.0	8.3	23786	706
Nov.	1	2.2	0.0	−11.37	1.27	0.44	+189.2	18.9	11.1	23080	687
	2	2.2	0.0	−10.10	+1.37	+0.10	+208.1	+ 6.8	−12.1	22393	−639
	3	2.2	0.0	− 8.73			+214.9			21754	
Nov.	18	−1.1	+0.1	+ 4.56	+0.13		− 44.9	+ 7.5		8.21813	+649
	19	1.0	0.1	+ 4.69	−0.53	−0.66	− 37.4	9.9	+ 2.4	22462	716
	20	1.0	0.1	+ 4.16	1.24	0.71	− 27.5	11.5	1.6	23178	707
	21	1.1	0.1	+ 2.92	1.95	0.71	− 16.0	13.2	1.7	23885	646
	22	1.1	0.1	+ 0.97	2.58	0.63	− 2.8	16.7	3.5	24531	509
	23	1.2	0.1	− 1.61	2.94	−0.36	+ 13.9	22.6	5.9	25040	308
	24	1.2	0.1	− 4.55	2.87	+0.07	+ 36.5	30.5	7.9	25348	+ 56
	25	1.3	0.1	− 7.42	2.22	0.65	+ 67.0	37.2	6.7	25404	−208
	26	1.4	0.1	− 9.64	1.20	1.02	+104.2	39.1	+ 1.9	25196	445
	27	1.4	0.1	−10.84	−0.17	1.03	+143.3	34.6	− 4.5	24751	624
	28	1.4	0.1	−11.01	+0.58	0.75	+177.9	25.1	9.5	24127	729
	29	1.4	0.1	−10.43	0.95	0.37	+203.0	13.3	11.8	23398	760
	30	1.5	0.1	− 9.48	1.02	+0.07	+216.3	+ 1.2	12.1	22638	727
Dec.	1	1.4	0.1	− 8.46	0.93	−0.09	+217.5	− 9.6	10.8	21911	647
	2	1.4	0.1	− 7.53	+0.76	−0.17	+207.9	−17.9	− 8.3	21264	−539
	3	1.3	0.2	− 6.77			+190.0			20725	
Dec.	18	−0.1	+0.2	+ 3.12	−1.10		− 19.2	+15.1		8.22919	+584
	19	0.1	0.2	+ 2.02	1.64	−0.54	− 4.1	17.3	+ 2.2	23503	558
	20	0.2	0.2	+ 0.38	2.07	0.43	+ 13.2	20.6	3.3	24061	482
	21	0.2	0.2	− 1.69	2.30	−0.23	+ 33.8	25.5	4.9	24543	348
	22	0.3	0.2	− 3.99	2.18	+0.12	+ 59.3	30.8	5.3	24891	+159
	23	0.3	0.2	− 6.17	1.67	0.51	+ 90.1	34.6	+ 3.8	25050	− 65
	24	0.4	0.2	− 7.84	0.93	0.74	+124.7	34.2	− 0.4	24985	295
	25	0.4	0.3	− 8.77	−0.20	0.73	+158.9	28.7	5.5	24690	493
	26	0.4	0.3	− 8.97	+0.28	0.48	+187.6	19.1	9.6	24197	639
	27	0.4	0.3	− 8.69	0.52	0.24	+206.7	+ 7.9	11.2	23558	714
	28	0.4	0.3	− 8.17	0.55	+0.03	+214.6	− 3.4	11.3	22844	725
	29	0.4	0.3	− 7.62	0.50	−0.05	+211.2	13.1	9.7	22119	676
	30	0.3	0.3	− 7.12	+0.43	−0.07	+198.1	−21.1	− 8.0	21443	−582
	31	0.2	0.3	− 6.69			+177.0			20861	

0^h Mittl. Zeit	Lage gegen den Erd-Aequator.							
	i		Δ		☊′		Δ – ☊	
	° ′		° ′	′	° ′	′	° ′	′
Jan. 0	24 14.97	70	56 55.22	30.73	3 12.47	1.13	357 3.95	1.04
10	24 15.67	70	56 24.49	30.72	3 11.34	1.15	357 4.99	1.06
20	24 16.37	70	55 53.77	30.70	3 10.19	1.16	357 6.05	1.07
30	24 17.07	69	55 23.07	30.69	3 9.03	1.18	357 7.12	1.08
Febr. 9	24 17.76	69	54 52.38	30.68	3 7.85	1.19	357 8.20	1.09
19	24 18.45	68	54 21.70	30.66	3 6.66	1.20	357 9.29	1.11
März 1	24 19.13	68	53 51.04	30.65	3 5.46	1.22	357 10.40	1.12
11	24 19.81	68	53 20.39	30.64	3 4.24	1.23	357 11.52	1.14
21	24 20.49	67	52 49.75	30.63	3 3.01	1.25	357 12.66	1.15
31	24 21.16	66	52 19.12	30.61	3 1.76	1.26	357 13.81	1.16
April 10	24 21.82	66	51 48.51	30.60	3 0.50	1.27	357 14.97	1.17
20	24 22.48	65	51 17.91	30.59	2 59.23	1.28	357 16.14	1.18
30	24 23.13	65	50 47.32	30.58	2 57.95	1.30	357 17.32	1.19
Mai 10	24 23.78	64	50 16.74	30.56	2 56.65	1.31	357 18.51	1.21
20	24 24.42	64	49 46.18	30.55	2 55.34	1.32	357 19.72	1.22
30	24 25.06	63	49 15.63	30.55	2 54.02	1.34	357 20.94	1.23
Juni 9	24 25.69	63	48 45.08	30.53	2 52.68	1.35	357 22.17	1.24
19	24 26.32	63	48 14.55	30.52	2 51.33	1.37	357 23.41	1.26
29	24 26.95	62	47 44.03	30.51	2 49.96	1.38	357 24.67	1.27
Juli 9	24 27.57	62	47 13.52	30.49	2 48.58	1.39	357 25.94	1.27
19	24 28.19	61	46 43.03	30.48	2 47.19	1.40	357 27.21	1.29
29	24 28.80	61	46 12.55	30.48	2 45.79	1.42	357 28.50	1.30
Aug. 8	24 29.41	60	45 42.07	30.46	2 44.37	1.43	357 29.80	1.31
18	24 30.01	60	45 11.61	30.45	2 42.94	1.44	357 31.11	1.32
28	24 30.61	59	44 41.16	30.44	2 41.50	1.45	357 32.43	1.33
Sept. 7	24 31.20	59	44 10.72	30.43	2 40.05	1.47	357 33.76	1.35
17	24 31.79	58	43 40.29	30.42	2 38.58	1.48	357 35.11	1.36
27	24 32.37	57	43 9.87	30.41	2 37.10	1.48	357 36.47	1.36
Oct. 7	24 32.94	57	42 39.46	30.40	2 35.62	1.50	357 37.83	1.37
17	24 33.51	56	42 9.06	30.38	2 34.12	1.51	357 39.20	1.39
27	24 34.07	55	41 38.68	30.37	2 32.61	1.52	357 40.59	1.40
Nov. 6	24 34.62	55	41 8.31	30.37	2 31.09	1.54	357 41.99	1.40
16	24 35.17	54	40 37.94	30.36	2 29.55	1.55	357 43.39	1.41
26	24 35.71	54	40 7.58	30.34	2 28.00	1.55	357 44.80	1.43
Dec. 6	24 36.25	53	39 37.24	30.34	2 26.45	1.57	357 46.23	1.44
16	24 36.78	53	39 6.90	30.33	2 24.88	1.58	357 47.67	1.45
26	24 37.31	52	38 36.57	30.32	2 23.30	1.60	357 49.12	1.46
36	24 37.83		38 6.25		2 21.70		357 50.58	

0h Mittl. Zeit		Aufst. Knoten der Mondbahn ° ′ ″	Mittlere Länge des Mondes ° ′ ″
Jan.	0	239 51 15.9	39 20 25.3
	10	239 19 29.5	171 6 15.5
	20	238 47 43.2	302 52 5.8
	30	238 15 56.9	74 37 56.1
Febr.	9	237 44 10.5	206 23 46.4
	19	237 12 24.2	338 9 36.7
März	1	236 40 37.8	109 55 27.0
	11	236 8 51.5	241 41 17.3
	21	235 37 5.1	13 27 7.6
	31	235 5 18.8	145 12 57.9
April	10	234 33 32.4	276 58 48.2
	20	234 1 46.1	48 44 38.5
	30	233 29 59.8	180 30 28.8
Mai	10	232 58 13.4	312 16 19.1
	20	232 26 27.1	84 2 9.4
	30	231 54 40.7	215 47 59.7
Juni	9	231 22 54.4	347 33 49.9
	19	230 51 8.0	119 19 40.2
	29	230 19 21.7	251 5 30.5
Juli	9	229 47 35.3	22 51 20.8
	19	229 15 49.0	154 37 11.1
	29	228 44 2.6	286 23 1.4
Aug.	8	228 12 16.3	58 8 51.7
	18	227 40 30.0	189 54 42.0
	28	227 8 43.6	321 40 32.3
Sept.	7	226 36 57.3	93 26 22.6
	17	226 5 10.9	225 12 12.9
	27	225 33 24.6	356 58 3.2
Oct.	7	225 1 38.2	128 43 53.5
	17	224 29 51.9	260 29 43.8
	27	223 58 5.6	32 15 34.1
Nov.	6	223 26 19.2	164 1 24.4
	16	222 54 32.9	295 47 14.6
	26	222 22 46.5	67 33 4.9
Dec.	6	221 51 0.2	199 18 55.2
	16	221 19 13.8	331 4 45.5
	26	220 47 27.5	102 50 35.8
	36	220 15 41.1	234 36 26.1

Bewegung der mittleren Länge des Mondes nach mittlerer Sonnenzeit

d	° ′ ″
0	0 0 0.0
1	13 10 35.0
2	26 21 10.1
3	39 31 45.1
4	52 42 20.1
5	65 52 55.1
6	79 3 30.2
7	92 14 5.2
8	105 24 40.2
9	118 35 15.2
10	131 45 50.3

h	° ′ ″
0	0 0 0.0
1	0 32 56.5
2	1 5 52.9
3	1 38 49.4
4	2 11 45.8
5	2 44 42.3
6	3 17 38.8
7	3 50 35.2
8	4 23 31.7
9	4 56 28.1
10	5 29 24.6
11	6 2 21.1
12	6 35 17.5
13	7 8 14.0
14	7 41 10.4
15	8 14 6.9
16	8 47 3.4
17	9 19 59.8
18	9 52 56.3
19	10 25 52.7
20	10 58 49.2
21	11 31 45.6
22	12 4 42.1
23	12 37 38.5
24	13 10 35.0

m	′ ″	m	′ ″
0	0 0.0	35	19 12.9
1	0 32.9	36	19 45.9
2	1 5.9	37	20 18.8
3	1 38.8	38	20 51.8
4	2 11.8	39	21 24.7
5	2 44.7	40	21 57.7
6	3 17.6	41	22 30.6
7	3 50.6	42	23 3.5
8	4 23.5	43	23 36.5
9	4 56.5	44	24 9.4
10	5 29.4	45	24 42.3
11	6 2.4	46	25 15.3
12	6 35.3	47	25 48.2
13	7 8.2	48	26 21.2
14	7 41.2	49	26 54.1
15	8 14.1	50	27 27.1
16	8 47.1	51	28 0.0
17	9 20.0	52	28 32.9
18	9 52.9	53	29 5.9
19	10 25.9	54	29 38.8
20	10 58.8	55	30 11.7
21	11 31.8	56	30 44.7
22	12 4.7	57	31 17.6
23	12 37.6	58	31 50.6
24	13 10.6	59	32 23.5
25	13 43.5	60	32 56.5
26	14 16.5		
27	14 49.4		
28	15 22.3		
29	15 55.3		
30	16 28.2		
31	17 1.2		
32	17 34.1		
33	18 7.1		
34	18 40.0		

s	″
0	0.0
10	5.5
20	11.0
30	16.5
40	22.0
50	27.5
60	32.9

Meridian und Polhöhe von Berlin.

Datum		SONNE		MOND	
		Unterg.	Aufg.	Aufg.	Unterg.
		h m	h m	h m	h m
Jan.	1	3 54	20 13	1 1	17 25
	2	3 55	20 13	1 48	18 28
	3	3 56	20 13	2 45	19 20
	4	3 57	20 13	3 51	20 1
	5	3 58	20 12	5 2	20 33
	6	4 0	20 12	6 15	20 59
	7	4 1	20 11	7 26	21 21
	8	4 2	20 11	8 36	21 40
	9	4 4	20 10	9 44	21 58
	10	4 5	20 10	10 51	22 17
	11	4 7	20 9	11 57	22 37
	12	4 8	20 8	13 3	22 58
	13	4 10	20 7	14 8	23 24
	14	4 11	20 7	15 13	23 55
	15	4 13	20 6	16 16	—
				Unterg.	Aufg.
	16	4 14	20 5	0 33	17 14
	17	4 16	20 4	1 21	18 6
	18	4 18	20 3	2 19	18 50
	19	4 19	20 2	3 27	19 26
	20	4 21	20 0	4 42	19 57
	21	4 23	19 59	6 1	20 23
	22	4 25	19 58	7 21	20 47
	23	4 26	19 57	8 42	21 10
	24	4 28	19 55	10 3	21 33
	25	4 30	19 54	11 24	21 58
	26	4 32	19 53	12 44	22 27
	27	4 34	19 51	14 2	23 2
	28	4 36	19 50	15 15	23 45
	29	4 37	19 48	16 19	—
				Aufg.	Unterg.
	30	4 39	19 47	0 38	17 13
	31	4 41	19 45	1 39	17 57
Febr.	1	4 43	19 44	2 46	18 32
	2	4 45	19 42	3 57	19 1
	3	4 47	19 40	5 8	19 25
	4	4 49	19 38	6 18	19 45
	5	4 50	19 37	7 27	20 4
	6	4 52	19 35	8 35	20 23

Datum		SONNE		MOND	
		Unterg.	Aufg.	Aufg.	Unterg.
		h m	h m	h m	h m
Febr.	7	4 54	19 33	9 41	20 42
	8	4 56	19 31	10 47	21 3
	9	4 58	19 29	11 52	21 27
	10	5 0	19 28	12 57	21 55
	11	5 2	19 26	14 0	22 29
	12	5 4	19 24	14 59	23 12
	13	5 6	19 22	15 53	—
				Unterg.	Aufg.
	14	5 8	19 20	0 4	16 40
	15	5 10	19 18	1 6	17 20
	16	5 12	19 16	2 17	17 54
	17	5 14	19 14	3 34	18 23
	18	5 15	19 12	4 55	18 49
	19	5 17	19 10	6 17	19 13
	20	5 19	19 8	7 41	19 37
	21	5 21	19 6	9 5	20 2
	22	5 23	19 3	10 28	20 31
	23	5 25	19 1	11 48	21 5
	24	5 27	18 59	13 4	21 46
	25	5 28	18 57	14 12	22 36
	26	5 30	18 55	15 9	23 34
	27	5 32	18 52	15 56	—
				Aufg.	Unterg.
	28	5 34	18 50	0 38	16 33
März	1	5 36	18 48	1 46	17 4
	2	5 38	18 46	2 56	17 29
	3	5 40	18 44	4 5	17 50
	4	5 42	18 41	5 14	18 10
	5	5 43	18 39	6 21	18 29
	6	5 45	18 37	7 28	18 49
	7	5 47	18 34	8 34	19 9
	8	5 49	18 32	9 39	19 31
	9	5 51	18 30	10 44	19 57
	10	5 52	18 27	11 47	20 29
	11	5 54	18 25	12 47	21 8
	12	5 56	18 23	13 42	21 55
	13	5 58	18 21	14 31	22 51
	14	6 0	18 18	15 13	23 56
	15	6 1	18 16	15 49	—

Meridian und Polhöhe von Berlin.

Datum	Sonne Unterg.	Sonne Aufg.	Mond Unterg.	Mond Aufg.
	h m	h m	h m	h m
März 16	6 3	18 14	1 8	16 19
17	6 5	18 11	2 25	16 46
18	6 7	18 9	3 46	17 11
19	6 8	18 6	5 9	17 36
20	6 10	18 4	6 34	18 2
21	6 12	18 2	8 0	18 31
22	6 14	17 59	9 25	19 4
23	6 15	17 57	10 46	19 43
24	6 17	17 55	11 59	20 31
25	6 19	17 52	13 2	21 28
26	6 21	17 50	13 53	22 31
27	6 22	17 47	14 34	23 39
28	6 24	17 45	15 6	—
			Aufg.	Unterg.
29	6 26	17 43	0 48	15 33
30	6 28	17 40	1 57	15 56
31	6 29	17 38	3 5	16 16
April 1	6 31	17 36	4 12	16 35
2	6 33	17 33	5 18	16 54
3	6 35	17 31	6 24	17 14
4	6 36	17 29	7 29	17 36
5	6 38	17 26	8 34	18 1
6	6 40	17 24	9 37	18 31
7	6 42	17 22	10 38	19 7
8	6 43	17 20	11 34	19 51
9	6 45	17 17	12 25	20 43
10	6 47	17 15	13 9	21 43
11	6 48	17 13	13 46	22 50
12	6 50	17 10	14 18	—
			Unterg.	Aufg.
13	6 52	17 8	0 2	14 45
14	6 54	17 6	1 19	15 10
15	6 55	17 4	2 39	15 34
16	6 57	17 2	4 1	15 59
17	6 59	16 59	5 26	16 26
18	7 1	16 57	6 52	16 57
19	7 2	16 55	8 16	17 35
20	7 4	16 53	9 36	18 21
21	7 6	16 51	10 46	19 16

Datum	Sonne Unterg.	Sonne Aufg.	Mond Unterg.	Mond Aufg.
	h m	h m	h m	h m
April 22	7 8	16 49	11 44	20 19
23	7 9	16 46	12 31	21 27
24	7 11	16 44	13 7	22 37
25	7 13	16 42	13 36	23 48
26	7 15	16 40	14 0	—
			Aufg.	Unterg.
27	7 16	16 38	0 57	14 21
28	7 18	16 36	2 4	14 41
29	7 20	16 34	3 10	15 0
30	7 21	16 32	4 15	15 20
Mai 1	7 23	16 30	5 20	15 41
2	7 25	16 28	6 25	16 5
3	7 27	16 26	7 29	16 34
4	7 28	16 24	8 31	17 8
5	7 30	16 22	9 29	17 49
6	7 32	16 21	10 22	18 38
7	7 33	16 19	11 7	19 36
8	7 35	16 17	11 46	20 40
9	7 37	16 15	12 19	21 49
10	7 38	16 14	12 47	23 2
11	7 40	16 12	13 12	—
			Unterg.	Aufg.
12	7 41	16 10	0 18	13 36
13	7 43	16 9	1 36	14 0
14	7 45	16 7	2 57	14 24
15	7 46	16 6	4 20	14 52
16	7 48	16 4	5 44	15 26
17	7 49	16 3	7 7	16 7
18	7 51	16 1	8 23	16 58
19	7 52	16 0	9 29	17 59
20	7 54	15 58	10 22	19 7
21	7 55	15 57	11 4	20 19
22	7 57	15 56	11 37	21 32
23	7 58	15 54	12 4	22 43
24	7 59	15 53	12 26	23 52
25	8 1	15 52	12 47	—
			Aufg.	Unterg.
26	8 2	15 51	0 59	13 6
27	8 3	15 50	2 5	13 26

Meridian und Polhöhe von Berlin.

Datum		SONNE		MOND	
		Unterg.	Aufg.	Aufg.	Unterg.
		h m	h m	h m	h m
Mai	28	8 5	15 49	3 11	13 46
	29	8 6	15 48	4 16	14 9
	30	8 7	15 47	5 20	14 36
	31	8 9	15 46	6 23	15 8
Juni	1	8 10	15 45	7 23	15 47
	2	8 11	15 44	8 18	16 34
	3	8 12	15 43	9 6	17 29
	4	8 13	15 43	9 48	18 32
	5	8 14	15 42	10 23	19 40
	6	8 15	15 42	10 52	20 52
	7	8 16	15 41	11 18	22 6
	8	8 17	15 41	11 41	23 21
	9	8 18	15 40	12 4	—
				Unterg.	Aufg.
	10	8 18	15 40	0 39	12 27
	11	8 19	15 39	1 58	12 53
	12	8 20	15 39	3 19	13 22
	13	8 20	15 39	4 40	13 58
	14	8 21	15 39	5 58	14 43
	15	8 22	15 39	7 9	15 39
	16	8 22	15 39	8 8	16 44
	17	8 23	15 39	8 56	17 55
	18	8 23	15 39	9 34	19 9
	19	8 23	15 39	10 5	20 23
	20	8 24	15 39	10 30	21 35
	21	8 24	15 39	10 52	22 45
	22	8 24	15 39	11 12	23 52
	23	8 24	15 39	11 31	—
				Aufg.	Unterg.
	24	8 24	15 40	0 58	11 51
	25	8 24	15 40	2 4	12 13
	26	8 24	15 41	3 9	12 38
	27	8 24	15 41	4 12	13 8
	28	8 24	15 42	5 13	13 44
	29	8 24	15 42	6 11	14 28
	30	8 24	15 43	7 2	15 21
Juli	1	8 24	15 44	7 46	16 22
	2	8 23	15 44	8 24	17 29
	3	8 23	15 45	8 56	18 41

Datum		SONNE		MOND	
		Unterg.	Aufg.	Aufg.	Unterg.
		h m	h m	h m	h m
Juli	4	8 22	15 46	9 23	19 55
	5	8 22	15 47	9 48	21 11
	6	8 21	15 48	10 11	22 27
	7	8 21	15 49	10 34	23 45
	8	8 20	15 50	10 58	—
				Unterg.	Aufg.
	9	8 20	15 51	1 4	11 25
	10	8 19	15 52	2 23	11 57
	11	8 18	15 53	3 40	12 37
	12	8 17	15 54	4 52	13 26
	13	8 16	15 55	5 55	14 25
	14	8 15	15 56	6 48	15 33
	15	8 14	15 57	7 30	16 46
	16	8 13	15 59	8 4	18 0
	17	8 12	16 0	8 32	19 14
	18	8 11	16 1	8 55	20 26
	19	8 10	16 3	9 16	21 35
	20	8 9	16 4	9 36	22 43
	21	8 7	16 5	9 56	23 49
	22	8 6	16 7	10 18	—
				Aufg.	Unterg.
	23	8 5	16 8	0 54	10 42
	24	8 3	16 10	1 58	11 10
	25	8 2	16 11	3 0	11 43
	26	8 0	16 13	3 59	12 23
	27	7 59	16 14	4 53	13 11
	28	7 57	16 16	5 41	14 9
	29	7 56	16 17	6 22	15 14
	30	7 54	16 19	6 57	16 25
	31	7 53	16 20	7 26	17 39
Aug.	1	7 51	16 22	7 52	18 56
	2	7 49	16 23	8 16	20 14
	3	7 48	16 25	8 40	21 33
	4	7 46	16 26	9 4	22 52
	5	7 44	16 28	9 31	—
				Unterg.	Aufg.
	6	7 42	16 30	0 11	10 2
	7	7 40	16 31	1 28	10 38
	8	7 38	16 33	2 41	11 23

Meridian und Polhöhe von Berlin.

Datum		Sonne Unterg.	Sonne Aufg.	Mond Unterg.	Mond Aufg.
		h m	h m	h m	h m
Aug.	9	7 37	16 34	3 46	12 17
	10	7 35	16 36	4 41	13 20
	11	7 33	16 38	5 26	14 29
	12	7 31	16 39	6 3	15 42
	13	7 29	16 41	6 33	16 55
	14	7 27	16 43	6 58	18 7
	15	7 25	16 44	7 20	19 17
	16	7 23	16 46	7 41	20 26
	17	7 21	16 48	8 2	21 33
	18	7 19	16 49	8 23	22 39
	19	7 17	16 51	8 46	23 44
	20	7 15	16 53	9 12	—
				Aufg.	Unterg.
	21	7 12	16 54	0 46	9 42
	22	7 10	16 56	1 46	10 19
	23	7 8	16 58	2 42	11 3
	24	7 6	16 59	3 32	11 56
	25	7 4	17 1	4 15	12 57
	26	7 1	17 3	4 53	14 5
	27	6 59	17 4	5 25	15 18
	28	6 57	17 6	5 53	16 34
	29	6 55	17 8	6 19	17 53
	30	6 52	17 9	6 43	19 14
	31	6 50	17 11	7 8	20 35
Sept.	1	6 48	17 13	7 35	21 56
	2	6 46	17 14	8 5	23 16
	3	6 43	17 16	8 40	—
				Unterg.	Aufg.
	4	6 41	17 18	0 31	9 23
	5	6 39	17 19	1 38	10 14
	6	6 36	17 21	2 36	11 14
	7	6 34	17 23	3 24	12 20
	8	6 32	17 24	4 3	13 30
	9	6 29	17 26	4 35	14 41
	10	6 27	17 28	5 1	15 52
	11	6 25	17 29	5 24	17 2
	12	6 22	17 31	5 45	18 11
	13	6 20	17 33	6 6	19 19
	14	6 18	17 34	6 27	20 25

Datum		Sonne Unterg.	Sonne Aufg.	Mond Unterg.	Mond Aufg.
		h m	h m	h m	h m
Sept.	15	6 15	17 36	6 50	21 30
	16	6 13	17 38	7 15	22 33
	17	6 10	17 39	7 44	23 34
	18	6 8	17 41	8 18	—
				Aufg.	Unterg.
	19	6 6	17 43	0 31	8 59
	20	6 3	17 45	1 22	9 47
	21	6 1	17 46	2 8	10 43
	22	5 58	17 48	2 47	11 46
	23	5 56	17 50	3 21	12 55
	24	5 54	17 51	3 51	14 9
	25	5 51	17 53	4 18	15 26
	26	5 49	17 55	4 43	16 46
	27	5 47	17 56	5 8	18 8
	28	5 44	17 58	5 35	19 32
	29	5 42	18 0	6 4	20 55
	30	5 40	18 1	6 38	22 14
Oct.	1	5 37	18 3	7 20	23 27
	2	5 35	18 5	8 10	—
				Unterg.	Aufg.
	3	5 33	18 7	0 30	9 8
	4	5 30	18 8	1 22	10 13
	5	5 28	18 10	2 4	11 22
	6	5 26	18 12	2 37	12 33
	7	5 23	18 13	3 5	13 43
	8	5 21	18 15	3 29	14 53
	9	5 19	18 17	3 51	16 1
	10	5 16	18 19	4 12	17 8
	11	5 14	18 21	4 32	18 14
	12	5 12	18 22	4 54	19 19
	13	5 9	18 24	5 18	20 23
	14	5 7	18 26	5 46	21 25
	15	5 5	18 28	6 18	22 23
	16	5 3	18 30	6 56	23 16
	17	5 1	18 31	7 42	—
				Aufg.	Unterg.
	18	4 58	18 33	0 3	8 34
	19	4 56	18 35	0 44	9 33
	20	4 54	18 37	1 19	10 38

Meridian und Polhöhe von Berlin.

Datum		SONNE		MOND	
		Unterg.	Aufg.	Aufg.	Unterg.
		h m	h m	h m	h m
Oct.	21	4 52	18 39	1 49	11 47
	22	4 50	18 40	2 16	13 0
	23	4 48	18 42	2 42	14 17
	24	4 46	18 44	3 6	15 37
	25	4 44	18 46	3 32	16 59
	26	4 42	18 48	4 0	18 23
	27	4 40	18 49	4 32	19 46
	28	4 38	18 51	5 11	21 5
	29	4 36	18 53	5 58	22 15
	30	4 34	18 55	6 55	23 14
	31	4 32	18 57	8 0	—
				Unterg.	Aufg.
Nov.	1	4 30	18 59	0 1	9 10
	2	4 28	19 1	0 38	10 23
	3	4 26	19 3	1 8	11 35
	4	4 24	19 5	1 34	12 44
	5	4 22	19 6	1 56	13 52
	6	4 20	19 8	2 17	14 59
	7	4 19	19 10	2 38	16 5
	8	4 17	19 12	3 0	17 11
	9	4 15	19 14	3 23	18 15
	10	4 14	19 16	3 49	19 17
	11	4 12	19 17	4 20	20 16
	12	4 10	19 19	4 56	21 11
	13	4 9	19 21	5 38	22 0
	14	4 7	19 23	6 28	22 43
	15	4 6	19 25	7 25	23 20
	16	4 4	19 26	8 27	23 51
	17	4 3	19 28	9 33	—
				Aufg.	Unterg.
	18	4 2	19 30	0 19	10 43
	19	4 0	19 32	0 44	11 56
	20	3 59	19 34	1 7	13 11
	21	3 58	19 35	1 31	14 29
	22	3 57	19 37	1 57	15 50
	23	3 56	19 39	2 26	17 12
	24	3 54	19 40	3 0	18 34
	25	3 53	19 42	3 42	19 50

Datum		SONNE		MOND	
		Unterg.	Aufg.	Aufg.	Unterg.
		h m	h m	h m	h m
Nov.	26	3 52	19 44	4 35	20 57
	27	3 51	19 45	5 38	21 52
	28	3 50	19 47	6 49	22 35
	29	3 50	19 48	8 3	23 9
	30	3 49	19 50	9 18	23 37
Dec.	1	3 48	19 51	10 31	—
				Unterg.	Aufg.
	2	3 47	19 52	0 1	11 41
	3	3 47	19 54	0 23	12 49
	4	3 46	19 55	0 44	13 56
	5	3 46	19 56	1 5	15 1
	6	3 45	19 58	1 27	16 6
	7	3 45	19 59	1 52	17 9
	8	3 44	20 0	2 21	18 9
	9	3 44	20 1	2 55	19 6
	10	3 44	20 3	3 36	19 58
	11	3 44	20 4	4 24	20 43
	12	3 44	20 5	5 19	21 22
	13	3 44	20 6	6 19	21 55
	14	3 44	20 7	7 24	22 24
	15	3 44	20 7	8 33	22 49
	16	3 44	20 8	9 43	23 13
	17	3 44	20 9	10 56	23 36
	18	3 44	20 10	12 10	23 59
	19	3 44	20 10	13 26	—
				Aufg.	Unterg.
	20	3 45	20 11	0 25	14 45
	21	3 45	20 11	0 55	16 5
	22	3 46	20 12	1 32	17 22
	23	3 46	20 12	2 18	18 34
	24	3 47	20 13	3 14	19 35
	25	3 47	20 13	4 21	20 25
	26	3 48	20 13	5 35	21 5
	27	3 49	20 13	6 51	21 37
	28	3 50	20 14	8 8	22 4
	29	3 51	20 14	9 22	22 27
	30	3 52	20 14	10 33	22 49
	31	3 53	20 14	11 42	23 11

Wahrer geocentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tagbogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Jan.	0	17 46 19.25	+6 39.48	−23 55 5.4	− 8 16.3	0.136641	23 9	3 44
	1	17 52 58.73	6 41.91	24 3 21.7	7 3.0	0.139079	23 11	3 43
	2	17 59 40.64	6 44.19	24 10 24.7	5 48.1	0.141331	23 14	3 42
	3	18 6 24.83	6 46.34	24 16 12.8	4 32.2	0.143401	23 17	3 41
	4	18 13 11.17	+6 48.39	24 20 45.0	− 3 14.6	0.145292	23 20	3 41
	5	18 19 59.56	6 50.33	−24 23 59.6	1 55.6	0.147009	23 23	3 40
	6	18 26 49.89	6 52.15	24 25 55.2	− 0 35.5	0.148554	23 25	3 40
	7	18 33 42.04	6 53.85	24 26 30.7	+ 0 45.6	0.149931	23 28	3 40
	8	18 40 35.89	6 55.45	24 25 45.1	2 8.1	0.151141	23 31	3 40
	9	18 47 31.34	+6 56.92	24 23 37.0	+ 3 31.6	0.152186	23 34	3 40
	10	18 54 28.26	6 58.31	−24 20 5.4	4 56.0	0.153065	23 37	3 41
	11	19 1 26.57	6 59.58	24 15 9.4	6 21.5	0.153780	23 40	3 41
	12	19 8 26.15	7 0.73	24 8 47.9	7 47.9	0.154330	23 43	3 42
	13	19 15 26.88	7 1.79	24 1 0.0	9 15.1	0.154716	23 46	3 43
	14	19 22 28.67	+7 2.73	23 51 44.9	+10 43.3	0.154936	23 50	3 44
	15	19 29 31.40	7 3.56	−23 41 1.6	12 12.4	0.154987	23 53	3 45
	16	19 36 34.96	7 4.29	23 28 49.2	13 42.0	0.154868	23 56	3 47
	17	19 43 39.25	7 4.90	23 15 7.2	15 12.2	0.154575	23 59	3 48
	18	19 50 44.15	7 5.39	22 59 55.0	16 43.3	0.154104	0 2	3 50
	19	19 57 49.54	+7 5.77	22 43 11.7	+18 15.0	0.153452	0 5	3 52
	20	20 4 55.31	7 6.03	−22 24 56.7	19 47.0	0.152613	0 8	3 55
	21	20 12 1.34	7 6.16	22 5 9.7	21 19.4	0.151581	0 11	3 57
	22	20 19 7.50	7 6.16	21 43 50.3	22 52.1	0.150349	0 15	3 59
	23	20 26 13.66	7 6.02	21 20 58.2	24 25.1	0.148910	0 18	4 2
	24	20 33 19.68	+7 5.72	20 56 33.1	+25 58.0	0.147255	0 21	4 5
	25	20 40 25.40	7 5.27	−20 30 35.1	27 31.0	0.145376	0 24	4 8
	26	20 47 30.67	7 4.65	20 3 4.1	29 3.8	0.143262	0 27	4 11
	27	20 54 35.32	7 3.82	19 34 0.3	30 36.0	0.140901	0 30	4 14
	28	21 1 39.14	7 2.77	19 3 24.3	32 7.5	0.138279	0 33	4 17
	29	21 8 41.91	+7 1.47	18 31 16.8	+33 38.0	0.135383	0 36	4 21
	30	21 15 43.38	6 59.89	−17 57 38.8	35 7.2	0.132198	0 40	4 24
	31	21 22 43.27	6 57.99	17 22 31.6	36 34.6	0.128707	0 43	4 28
Febr.	1	21 29 41.26	6 55.72	16 45 57.0	37 59.7	0.124893	0 46	4 32
	2	21 36 36.98	6 53.01	16 7 57.3	39 22.0	0.120736	0 49	4 35
	3	21 43 29.99	+6 49.80	15 28 35.3	+40 40.7	0.116214	0 52	4 39
	4	21 50 19.79	6 46.00	−14 47 54.6	41 55.1	0.111306	0 55	4 43
	5	21 57 5.79	6 41.52	14 5 59.5	43 4.4	0.105989	0 57	4 48
	6	22 3 47.31	6 36.26	13 22 55.1	44 7.4	0.100239	1 0	4 52
	7	22 10 23.57	6 30.11	12 38 47.7	45 3.0	0.094032	1 3	4 56
	8	22 16 53.68		11 53 44.7		0.087343	1 6	5 0

Wahrer geocentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Febr. 7	22 10 23.57	+6 30.11	−12 38 47.7	+45 3.0	0.094032	1 3	4 56
8	22 16 53.68	6 22.91	11 53 44.7	45 49.7	0.087343	1 6	5 0
9	22 23 16.59	6 14.54	11 7 55.0	46 26.1	0.080149	1 8	5 4
10	22 29 31.13	6 4.84	10 21 28.9	46 50.7	0.072428	1 10	5 9
11	22 35 35.97	+5 53.65	9 34 38.2	+47 1.8	0.064159	1 12	5 13
12	22 41 29.62	5 40.82	− 8 47 36.4	46 57.5	0.055325	1 14	5 17
13	22 47 10.44	5 26.18	8 0 38.9	46 36.2	0.045915	1 16	5 21
14	22 52 36.62	5 9.59	7 14 2.7	45 56.2	0.035924	1 18	5 25
15	22 57 46.21	4 50.94	6 28 6.5	44 55.8	0.025353	1 19	5 30
16	23 2 37.15	+4 30.14	5 43 10.7	+43 33.5	0.014213	1 20	5 34
17	23 7 7.29	4 7.13	− 4 59 37.2	41 48.4	0.002524	1 21	5 38
18	23 11 14.42	3 41.94	4 17 48.8	39 39.7	9.990321	1 20	5 41
19	23 14 56.36	3 14.61	3 38 9.1	37 6.9	9.977653	1 20	5 45
20	23 18 10.97	2 45.29	3 1 2.2	34 10.0	9.964580	1 19	5 48
21	23 20 56.26	+2 14.17	2 26 52.2	+30 49.9	9.951176	1 18	5 51
22	23 23 10.43	1 41.56	− 1 56 2.3	27 7.9	9.937532	1 16	5 54
23	23 24 51.99	1 7.82	1 28 54.4	23 5.6	9.923753	1 14	5 56
24	23 25 59.81	+0 33.40	1 5 48.8	18 45.0	9.909955	1 11	5 58
25	23 26 33.21	−0 1.15	0 47 3.8	14 9.4	9.896269	1 8	5 59
26	23 26 32.06	−0 35.25	0 32 54.4	+ 9 23.1	9.882835	1 4	6 1
27	23 25 56.81	1 8.24	− 0 23 31.3	+ 4 30.4	9.869801	1 0	6 2
28	23 24 48.57	1 39.39	0 19 0.9	− 0 24.2	9.857318	0 55	6 2
März 1	23 23 9.18	2 8.01	0 19 25.1	5 14.4	9.845536	0 49	6 2
2	23 21 1.17	2 33.41	0 24 39.5	9 53.9	9.834603	0 43	6 1
3	23 18 27.76	−2 54.96	0 34 33.4	−14 16.7	9.824656	0 36	6 0
4	23 15 32.80	3 12.11	− 0 48 50.1	18 16.5	9.815817	0 29	5 59
5	23 12 20.69	3 24.49	1 7 6.6	21 47.6	9.808188	0 22	5 58
6	23 8 56.20	3 31.88	1 28 54.2	24 45.8	9.801846	0 15	5 56
7	23 5 24.32	3 34.23	1 53 40.0	27 7.5	9.796840	0 7	5 54
8	23 1 50.09	−3 31.70	2 20 47.5	−28 50.7	9.793189	0 0	5 51
9	22 58 18.39	3 24.61	− 2 49 38.2	29 55.4	9.790883	23 53	5 49
10	22 54 53.78	3 13.39	3 19 33.6	30 22.9	9.789887	23 46	5 47
11	22 51 40.39	2 58.62	3 49 56.5	30 15.8	9.790137	23 39	5 44
12	22 48 41.77	2 40.93	4 20 12.3	29 37.4	9.791552	23 32	5 41
13	22 46 0.84	−2 20.92	4 49 49.7	−28 31.7	9.794037	23 25	5 38
14	22 43 39.92	1 59.21	− 5 18 21.4	27 3.4	9.797484	23 18	5 36
15	22 41 40.71	1 36.40	5 45 24.8	25 17.0	9.801784	23 12	5 34
16	22 40 4.31	1 13.02	6 10 41.8	23 16.3	9.806829	23 7	5 31
17	22 38 51.29	0 49.42	6 33 58.1	21 4.9	9.812510	23 2	5 29
18	22 38 1.87		6 55 3.0		9.818725	22 57	5 27

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	22 38 51.29	−0 49.42	−6 33 58.1	−21 4.9	9.812510	23 2	5 29
18	22 38 1.87	0 26.03	6 55 3.0	18 46.2	9.818725	22 57	5 27
19	22 37 35.84	−0 3.13	7 13 49.2	16 23.4	9.825381	22 52	5 26
20	22 37 32.71	+0 19.07	7 30 12.6	13 58.4	9.832394	22 48	5 24
21	22 37 51.78	+0 40.43	7 44 11.0	−11 32.7	9.839687	22 45	5 23
22	22 38 32.21	1 0.84	−7 55 43.7	9 7.9	9.847194	22 42	5 22
23	22 39 33.05	1 20.21	8 4 51.6	6 45.1	9.854857	22 39	5 21
24	22 40 53.26	1 38.52	8 11 36.7	4 25.2	9.862625	22 36	5 20
25	22 42 31.78	1 55.79	8 16 1.9	− 2 8.3	9.870457	22 34	5 20
26	22 44 27.57	+2 12.04	8 18 10.2	+ 0 5.2	9.878316	22 32	5 20
27	22 46 39.61	2 27.29	−8 18 5.0	2 14.8	9.886172	22 30	5 20
28	22 49 6.90	2 41.56	8 15 50.2	4 20.6	9.894002	22 29	5 20
29	22 51 48.46	3 54.92	8 11 29.6	6 22.7	9.901783	22 27	5 21
30	22 54 43.38	3 7.44	8 5 6.9	8 20.9	9.909498	22 26	5 21
31	22 57 50.82	+3 19.17	7 56 46.0	+10 15.4	9.917136	22 25	5 22
April 1	23 1 9.99	3 30.16	−7 46 30.6	12 6.4	9.924686	22 25	5 23
2	23 4 40.15	3 40.45	7 34 24.2	13 53.9	9.932139	22 24	5 24
3	23 8 20.60	3 50.12	7 20 30.3	15 38.0	9.939488	22 24	5 25
4	23 12 10.72	3 59.24	7 4 52.3	17 19.0	9.946730	22 24	5 26
5	23 16 9.96	+4 7.82	6 47 33.3	+18 57.0	9.953860	22 24	5 28
6	23 20 17.78	4 15.94	−6 28 36.3	20 32.0	9.960876	22 24	5 30
7	23 24 33.72	4 23.65	6 8 4.3	22 4.1	9.967777	22 24	5 31
8	23 28 57.37	4 30.98	5 46 0.2	23 33.7	9.974563	22 25	5 33
9	23 33 28.35	4 37.98	5 22 26.5	25 0.8	9.981233	22 25	5 35
10	23 38 6.33	+4 44.71	4 57 25.7	+26 25.4	9.987786	22 26	5 37
11	23 42 51.04	4 51.19	−4 31 0.3	27 47.6	9.994223	22 27	5 40
12	23 47 42.23	4 57.46	4 3 12.7	29 7.4	0.000544	22 28	5 42
13	23 52 39.69	5 3.56	3 34 5.3	30 25.2	0.006750	22 29	5 45
14	23 57 43.25	5 9.52	3 3 40.1	31 40.8	0.012842	22 30	5 47
15	0 2 52.77	+5 15.39	2 31 59.3	+32 54.4	0.018819	22 31	5 50
16	0 8 8.16	5 21.19	−1 59 4.9	34 5.8	0.024681	22 33	5 53
17	0 13 29.35	5 26.94	1 24 59.1	35 15.1	0.030428	22 34	5 56
18	0 18 56.29	5 32.69	0 49 44.0	36 22.6	0.036059	22 35	5 59
19	0 24 28.98	5 38.45	−0 13 21.4	37 27.9	0.041574	22 37	6 3
20	0 30 7.43	+5 44.26	+0 24 6.5	+38 31.3	0.046972	22 39	6 6
21	0 35 51.69	5 50.16	+1 2 37.8	39 32.5	0.052250	22 40	6 9
22	0 41 41.85	5 56.17	1 42 10.3	40 31.6	0.057404	22 42	6 12
23	0 47 38.02	6 2.29	2 22 41.9	41 28.5	0.062433	22 44	6 16
24	0 53 40.31	6 8.57	3 4 10.4	42 23.0	0.067332	22 46	6 20
25	0 59 48.88		3 46 33.4		0.072096	22 48	6 23

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Oestl. Stunden-Winkel h m	Halber Tag-bogen h m
April 24	0 53 40.31	+6 8.57	+ 3 4 10.4	+42 23.0	0.067332	22 46	6 20
25	0 59 48.88	6 15.03	3 46 33.4	43 15.0	0.072096	22 48	6 23
26	1 6 3.91	6 21.69	4 29 48.4	44 4.4	0.076720	22 51	6 27
27	1 12 25.60	6 28.56	5 13 52.8	44 50.9	0.081195	22 53	6 31
28	1 18 54.16	+6 35.67	5 58 43.7	+45 34.2	0.085514	22 56	6 35
29	1 25 29.83	6 43.01	+ 6 44 17.9	46 13.9	0.089668	22 59	6 39
30	1 32 12.84	6 50.60	7 30 31.8	46 49.8	0.093646	23 1	6 43
Mai 1	1 39 3.44	6 58.44	8 17 21.6	47 21.4	0.097435	23 4	6 47
2	1 46 1.88	7 6.52	9 4 43.0	47 48.2	0.101022	23 7	6 52
3	1 53 8.40	+7 14.84	9 52 31.2	+48 9.7	0.104393	23 10	6 56
4	2 0 23.24	7 23.36	+10 40 40.9	48 25.3	0.107531	23 14	7 1
5	2 7 46.60	7 32.05	11 29 6.2	48 34.0	0.110418	23 17	7 5
6	2 15 18.65	7 40.88	12 17 40.2	48 35.3	0.113034	23 21	7 10
7	2 22 59.53	7 49.78	13 6 15.5	48 28.5	0.115358	23 25	7 14
8	2 30 49.31	+7 58.65	13 54 44.0	+48 12.8	0.117370	23 29	7 19
9	2 38 47.96	8 7.43	+14 42 56.8	47 47.1	0.119047	23 33	7 24
10	2 46 55.39	8 16.01	15 30 43.9	47 10.6	0.120365	23 37	7 29
11	2 55 11.40	8 24.24	16 17 54.5	46 23.0	0.121302	23 41	7 34
12	3 3 35.64	8 32.01	17 4 17.5	45 23.5	0.121836	23 45	7 39
13	3 12 7.65	+8 39.18	17 49 41.0	+44 11.7	0.121946	23 50	7 43
14	3 20 46.83	8 45.57	+18 33 52.7	42 47.4	0.121613	23 55	7 48
15	3 29 32.40	8 51.05	19 16 40.1	41 10.7	0.120820	0 0	7 53
16	3 38 23.45	8 55.53	19 57 50.8	39 22.0	0.119555	0 5	7 57
17	3 47 18.98	8 58.84	20 37 12.8	37 22.0	0.117811	0 10	8 2
18	3 56 17.82	+9 0.90	21 14 34.8	+35 11.6	0.115583	0 15	8 6
19	4 5 18.72	9 1.65	+21 49 46.4	32 52.2	0.112872	0 20	8 11
20	4 14 20.37	9 1.06	22 22 38.6	30 25.3	0.109683	0 25	8 15
21	4 23 21.43	8 59.11	22 53 3.9	27 52.4	0.106024	0 30	8 18
22	4 32 20.54	8 55.84	23 20 56.3	25 15.3	0.101911	0 35	8 22
23	4 41 16.38	+8 51.30	23 46 11.6	+22 35.3	0.097363	0 40	8 25
24	4 50 7.68	8 45.54	+24 8 46.9	19 54.4	0.092400	0 45	8 28
25	4 58 53.22	8 38.67	24 28 41.3	17 14.0	0.087042	0 50	8 30
26	5 7 31.89	8 30.77	24 45 55.3	14 35.7	0.081314	0 54	8 33
27	5 16 2.66	8 21.96	25 0 31.0	12 0.4	0.075243	0 59	8 35
28	5 24 24.62	+8 12.30	25 12 31.4	+ 9 28.8	0.068853	1 3	8 36
29	5 32 36.92	8 1.90	+25 22 0.2	7 2.1	0.062167	1 7	8 37
30	5 40 38.82	7 50.87	25 29 2.3	4 41.2	0.055208	1 11	8 38
31	5 48 29.69	7 39.27	25 33 43.5	2 26.1	0.048000	1 15	8 39
Juni 1	5 56 8.96	7 27.17	25 36 9.6	+ 0 17.2	0.040565	1 19	8 40
2	6 3 36.13		25 36 26.8		0.032923	1 23	8 40

Wahrer geocentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tagbogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Juni	1	5 56 8.96	+7 27.17	+25 36 9.6	+ 0 17.2	0.040565	1 19	8 40
	2	6 3 36.13	7 14.63	25 36 26.8	− 1 44.8	0.032923	1 23	8 40
	3	6 10 50.76	7 1.72	25 34 42.0	3 40.1	0.025093	1 26	8 39
	4	6 17 52.48	6 48.49	25 31 1.9	5 28.7	0.017091	1 29	8 39
	5	6 24 40.97	+6 34.95	25 25 33.2	− 7 10.4	0.008932	1 32	8 38
	6	6 31 15.92	6 21.11	+25 18 22.8	8 45.2	0.000632	1 35	8 37
	7	6 37 37.03	6 7.01	25 9 37.6	10 13.1	9.992208	1 37	8 36
	8	6 43 44.04	5 52.69	24 59 24.5	11 34.4	9.983672	1 39	8 35
	9	6 49 36.73	5 38.13	24 47 50.1	12 49.0	9.975035	1 41	8 33
	10	6 55 14.86	+5 23.33	24 35 1.1	−13 56.9	9.966307	1 43	8 31
	11	7 0 38.19	5 8.29	+24 21 4.2	14 58.3	9.957502	1 44	8 29
	12	7 5 46.48	4 53.03	24 6 5.9	15 53.3	9.948632	1 45	8 27
	13	7 10 39.51	4 37.51	23 50 12.6	16 42.0	9.939707	1 46	8 25
	14	7 15 17.02	4 21.71	23 33 30.6	17 24.4	9.930738	1 47	8 23
	15	7 19 38.73	+4 5.63	23 16 6.2	−18 0.4	9.921738	1 47	8 21
	16	7 23 44.36	3 49.28	+22 58 5.8	18 30.3	9.912720	1 48	8 19
	17	7 27 33.64	3 32.63	22 39 35.5	18 54.0	9.903697	1 48	8 17
	18	7 31 6.27	3 15.65	22 20 41.5	19 11.5	9.894682	1 47	8 14
	19	7 34 21.92	2 58.35	22 1 30.0	19 22.9	9.885693	1 47	8 12
	20	7 37 20.27	+2 40.73	21 42 7.1	−19 28.1	9.876748	1 46	8 10
	21	7 40 1.00	2 22.77	+21 22 39.0	19 27.2	9.867866	1 44	8 7
	22	7 42 23.77	2 4.49	21 3 11.8	19 20.2	9.859067	1 43	8 5
	23	7 44 28.26	1 45.91	20 43 51.6	19 6.9	9.850376	1 41	8 3
	24	7 46 14.17	1 27.07	20 24 44.7	18 47.4	9.841821	1 39	8 1
	25	7 47 41.24	+1 7.99	20 5 57.3	−18 21.9	9.833431	1 36	7 58
	26	7 48 49.23	0 48.73	+19 47 35.4	17 50.2	9.825237	1 33	7 56
	27	7 49 37.96	0 29.35	19 29 45.2	17 12.5	9.817274	1 30	7 54
	28	7 50 7.31	+0 9.94	19 12 32.7	16 28.8	9.809583	1 27	7 52
	29	7 50 17.25	−0 9.35	18 56 3.9	15 39.2	9.802206	1 23	7 50
	30	7 50 7.90	−0 28.40	18 40 24.7	−14 44.0	9.795187	1 19	7 49
Juli	1	7 49 39.50	0 47.07	+18 25 40.7	13 43.3	9.788574	1 14	7 47
	2	7 48 52.43	1 5.18	18 11 57.4	12 37.4	9.782419	1 9	7 46
	3	7 47 47.25	1 22.50	17 59 20.0	11 26.8	9.776775	1 4	7 45
	4	7 46 24.75	1 38.80	17 47 53.2	10 11.8	9.771696	0 59	7 43
	5	7 44 45.95	−1 53.85	17 37 41.4	− 8 53.0	9.767237	0 54	7 42
	6	7 42 52.10	2 7.41	+17 28 48.4	7 31.1	9.763452	0 48	7 41
	7	7 40 44.69	2 19.23	17 21 17.3	6 6.5	9.760393	0 42	7 40
	8	7 38 25.46	2 29.06	17 15 10.8	4 40.0	9.758108	0 36	7 40
	9	7 35 56.40	2 36.67	17 10 30.8	3 12.5	9.756642	0 29	7 39
	10	7 33 19.73		17 7 18.3		9.756034	0 22	7 39

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Oestl. Stunden-Winkel h m	Halber Tag-bogen h m
Juli 9	7 35 56.40	−2 36.67	+17 10 30.8	−3 12.5	9.756642	0 29	7 39
10	7 33 19.73	2 41.87	17 7 18.3	1 44.8	9.756034	0 22	7 39
11	7 30 37.86	2 44.50	17 5 33.5	−0 17.6	9.756313	0 16	7 39
12	7 27 53.36	2 44.45	17 5 15.9	+1 8.1	9.757501	0 10	7 38
13	7 25 8.91	−2 41.66	17 6 24.0	+2 31.5	9.759611	0 3	7 38
14	7 22 27.25	2 36.11	+17 8 55.5	3 51.9	9.762645	23 56	7 39
15	7 19 51.14	2 27.87	17 12 47.4	5 8.3	9.766596	23 49	7 39
16	7 17 23.27	2 17.02	17 17 55.7	6 20.0	9.771446	23 43	7 40
17	7 15 6.25	2 3.68	17 24 15.7	7 26.5	9.777168	23 37	7 41
18	7 13 2.57	−1 48.05	17 31 42.2	+8 27.2	9.783725	23 31	7 41
19	7 11 14.52	1 30.35	+17 40 9.4	9 21.3	9.791072	23 25	7 42
20	7 9 44.17	1 10.80	17 49 30.7	10 8.5	9.799161	23 19	7 43
21	7 8 33.37	0 49.64	17 59 39.2	10 48.3	9.807936	23 14	7 45
22	7 7 43.73	0 27.09	18 10 27.5	11 20.1	9.817338	23 10	7 46
23	7 7 16.64	−0 3.38	18 21 47.6	+11 43.4	9.827305	23 6	7 47
24	7 7 13.26	+0 21.24	+18 33 31.0	11 58.1	9.837774	23 2	7 48
25	7 7 34.50	0 46.57	18 45 29.1	12 4.0	9.848681	22 58	7 49
26	7 8 21.07	1 12.44	18 57 33.1	12 0.6	9.859962	22 55	7 51
27	7 9 33.51	1 38.67	19 9 33.7	11 47.2	9.871556	22 52	7 52
28	7 11 12.18	+2 5.09	19 21 20.9	+11 23.7	9.883402	22 50	7 53
29	7 13 17.27	2 31.54	+19 32 44.6	10 49.9	9.895439	22 48	7 55
30	7 15 48.81	2 57.90	19 43 34.5	10 5.8	9.907610	22 46	7 56
31	7 18 46.71	3 24.08	19 53 40.3	9 10.6	9.919859	22 45	7 57
Aug. 1	7 22 10.79	3 49.88	20 2 50.9	8 4.1	9.932133	22 45	7 58
2	7 26 0.67	+4 15.23	20 10 55.0	+6 46.5	9.944378	22 45	7 59
3	7 30 15.90	4 39.96	+20 17 41.5	5 17.6	9.956541	22 45	7 59
4	7 34 55.86	5 3.92	20 22 59.1	3 37.5	9.968572	22 46	8 0
5	7 39 59.78	5 27.00	20 26 36.6	+1 46.4	9.980423	22 47	8 1
6	7 45 26.78	5 49.03	20 28 23.0	−0 15.3	9.992046	22 48	8 1
7	7 51 15.81	+6 9.82	20 28 7.7	−2 26.7	0.003395	22 50	8 1
8	7 57 25.63	6 29.20	+20 25 41.0	4 46.8	0.014425	22 52	8 1
9	8 3 54.83	6 47.05	20 20 54.2	7 14.7	0.025094	22 55	8 0
10	8 10 41.88	7 3.21	20 13 39.5	9 49.2	0.035363	22 58	7 59
11	8 17 45.09	7 17.52	20 3 50.3	12 28.4	0.045196	23 1	7 58
12	8 25 2.61	+7 29.90	19 51 21.9	−15 10.1	0.054562	23 4	7 56
13	8 32 32.51	7 40.28	+19 36 11.8	17 52.4	0.063435	23 8	7 55
14	8 40 12.79	7 48.65	19 18 19.4	20 33.8	0.071794	23 12	7 53
15	8 48 1.44	7 55.00	18 57 45.6	23 12.1	0.079622	23 15	7 51
16	8 55 56.44	7 59.41	18 34 33.5	25 45.4	0.086910	23 19	7 48
17	9 3 55.85		18 8 48.1		0.093656	23 23	7 45

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
Aug. 16	8h 55m 56s.44	+7m 59s.41	+18° 34′ 33″.5	−25′ 45″.4	0.086910	23h 19m	7h 48m
17	9 3 55.85	8 2.00	18 8 48.1	28 12.1	0.093656	23 23	7 45
18	9 11 57.85	8 2.88	17 40 36.0	30 31.1	0.099862	23 27	7 42
19	9 20 0.73	8 2.21	17 10 4.9	32 41.1	0.105537	23 32	7 39
20	9 28 2.94	+8 0.20	16 37 23.8	−34 41.2	0.110692	23 36	7 36
21	9 36 3.14	7 57.03	+16 2 42.6	36 31.4	0.115343	23 40	7 32
22	9 44 0.17	7 52.89	15 26 11.2	38 11.3	0.119510	23 44	7 29
23	9 51 53.06	7 47.95	14 47 59.9	39 41.0	0.123214	23 48	7 25
24	9 59 41.01	7 42.35	14 8 18.9	41 0.6	0.126477	23 52	7 21
25	10 7 23.36	+7 36.28	13 27 18.3	−42 10.4	0.129323	23 55	7 16
26	10 14 59.64	7 29.90	+12 45 7.9	43 11.2	0.131776	23 58	7 12
27	10 22 29.54	7 23.30	12 1 56.7	44 3.7	0.133859	0 2	7 8
28	10 29 52.84	7 16.56	11 17 53.0	44 48.0	0.135595	0 6	7 4
29	10 37 9.40	7 9.79	10 33 5.0	45 24.7	0.137005	0 10	7 0
30	10 44 19.19	+7 3.07	9 47 40.3	−45 54.6	0.138108	0 13	6 56
31	10 51 22.26	6 56.44	+9 1 45.7	46 18.5	0.138925	0 16	6 51
Sept. 1	10 58 18.70	6 49.94	8 15 27.2	46 36.8	0.139473	0 19	6 47
2	11 5 8.64	6 43.60	7 28 50.4	46 49.7	0.139768	0 22	6 43
3	11 11 52.24	6 37.46	6 42 0.7	46 57.8	0.139824	0 24	6 39
4	11 18 29.70	+6 31.54	5 55 2.9	−47 1.7	0.139654	0 27	6 35
5	11 25 1.24	6 25.84	+5 8 1.2	47 1.8	0.139271	0 30	6 30
6	11 31 27.08	6 20.36	4 20 59.4	46 58.3	0.138685	0 32	6 26
7	11 37 47.44	6 15.12	3 34 1.1	46 51.4	0.137905	0 34	6 22
8	11 44 2.56	6 10.10	2 47 9.7	46 41.6	0.136940	0 37	6 18
9	11 50 12.66	+6 5.31	2 0 28.1	−46 29.1	0.135796	0 39	6 14
10	11 56 17.97	6 0.75	+1 13 59.0	46 14.0	0.134480	0 41	6 10
11	12 2 18.72	5 56.39	+0 27 45.0	45 56.7	0.132998	0 43	6 6
12	12 8 15.11	5 52.23	−0 18 11.7	45 37.2	0.131353	0 45	6 2
13	12 14 7.34	5 48.25	1 3 48.9	45 15.6	0.129549	0 47	5 58
14	12 19 55.59	+5 44.46	1 49 4.5	−44 52.1	0.127590	0 49	5 54
15	12 25 40.05	5 40.86	−2 33 56.6	44 26.9	0.125477	0 51	5 50
16	12 31 20.91	5 37.40	3 18 23.5	44 0.0	0.123212	0 53	5 47
17	12 36 58.31	5 34.09	4 2 23.5	43 31.3	0.120795	0 54	5 43
18	12 42 32.40	5 30.91	4 45 54.8	43 1.2	0.118227	0 56	5 39
19	12 48 3.31	+5 27.82	5 28 56.0	−42 29.6	0.115507	0 57	5 35
20	12 53 31.13	5 24.83	−6 11 25.6	41 56.5	0.112636	0 59	5 31
21	12 58 55.96	5 21.95	6 53 22.1	41 21.7	0.109612	1 0	5 27
22	13 4 17.91	5 19.11	7 34 43.8	40 45.4	0.106433	1 2	5 24
23	13 9 37.02	5 16.31	8 15 29.2	40 7.7	0.103096	1 3	5 20
24	13 14 53.33		8 55 36.9		0.099598	1 5	5 16

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Oestl. Stunden-Winkel h m	Halber Tag-bogen h m
Sept. 23	13 9 37.02	+5 16.31	−8 15 29.2	−40 7.7	0.103096	1 3	5 20
24	13 14 53.33	5 13.55	8 55 36.9	39 28.6	0.099598	1 5	5 16
25	13 20 6.88	5 10.78	9 35 5.5	38 47.7	0.095937	1 6	5 13
26	13 25 17.66	5 7.98	10 13 53.2	38 5.3	0.092109	1 7	5 9
27	13 30 25.64	+5 5.14	10 51 58.5	−37 21.4	0.088109	1 8	5 6
28	13 35 30.78	5 2.23	−11 29 19.9	36 35.6	0.083933	1 9	5 2
29	13 40 33.01	4 59.22	12 5 55.5	35 47.9	0.079577	1 10	4 59
30	13 45 32.23	4 56.06	12 41 43.4	34 58.5	0.075035	1 12	4 56
Oct. 1	13 50 28.29	4 52.72	13 16 41.9	34 7.2	0.070301	1 13	4 52
2	13 55 21.01	+4 49.17	13 50 49.1	−33 13.7	0.065369	1 14	4 49
3	14 0 10.18	4 45.38	−14 24 2.8	32 17.7	0.060231	1 14	4 46
4	14 4 55.56	4 41.25	14 56 20.5	31 19.3	0.054881	1 15	4 43
5	14 9 36.81	4 36.75	15 27 39.8	30 18.4	0.049313	1 16	4 40
6	14 14 13.56	4 31.84	15 57 58.2	29 14.6	0.043518	1 16	4 37
7	14 18 45.40	+4 26.41	16 27 12.8	−28 7.7	0.037488	1 17	4 34
8	14 23 11.81	4 20.40	−16 55 20.5	26 57.3	0.031217	1 18	4 31
9	14 27 32.21	4 13.74	17 22 17.8	25 43.2	0.024697	1 18	4 28
10	14 31 45.95	4 6.33	17 48 1.0	24 25.1	0.017919	1 18	4 26
11	14 35 52.28	3 58.05	18 12 26.1	23 2.5	0.010877	1 18	4 23
12	14 39 50.33	+3 48.79	18 35 28.6	−21 35.0	0.003566	1 18	4 20
13	14 43 39.12	3 38.44	−18 57 3.6	20 2.0	9.995980	1 18	4 18
14	14 47 17.56	3 26.86	19 17 5.6	18 22.8	9.988116	1 18	4 16
15	14 50 44.42	3 13.91	19 35 28.4	16 36.9	9.979972	1 18	4 14
16	14 53 58.33	2 59.42	19 52 5.3	14 43.6	9.971551	1 17	4 13
17	14 56 57.75	+2 43.25	20 6 48.9	−12 41.6	9.962856	1 16	4 11
18	14 59 41.00	2 25.22	−20 19 30.5	10 30.5	9.953896	1 15	4 9
19	15 2 6.22	2 5.19	20 30 1.0	8 9.1	9.944688	1 13	4 8
20	15 4 11.41	1 43.03	20 38 10.1	5 36.0	9.935256	1 11	4 7
21	15 5 54.44	1 18.61	20 43 46.1	−2 49.9	9.925632	1 9	4 6
22	15 7 13.05	+0 51.86	20 46 36.0	+0 9.7	9.915860	1 7	4 5
23	15 8 4.91	+0 22.82	−20 46 26.3	3 23.8	9.905998	1 4	4 5
24	15 8 27.73	−0 8.42	20 43 2.5	6 53.1	9.896122	1 0	4 6
25	15 8 19.31	0 41.60	20 36 9.4	10 37.7	9.886325	0 56	4 7
26	15 7 37.71	1 16.29	20 25 31.7	14 36.6	9.876724	0 51	4 8
27	15 6 21.42	−1 51.84	20 10 55.1	+18 47.7	9.867459	0 46	4 10
28	15 4 29.58	2 27.39	−19 52 7.4	23 6.9	9.858694	0 40	4 12
29	15 2 2.19	3 1.77	19 29 0.5	27 27.7	9.850618	0 34	4 14
30	14 59 0.42	3 33.61	19 1 32.8	31 41.8	9.843441	0 27	4 17
31	14 55 26.81	4 1.39	18 29 51.0	35 38.1	9.837382	0 19	4 21
Nov. 1	14 51 25.42		17 54 12.9		9.832664	0 11	4 25

Wahrer geocentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Oct.	31	14 55 26.81	−4 1.39	−18 29 51.0	+35 38.1	9.837382	0 19	4 21
Nov.	1	14 51 25.42	4 23.51	17 54 12.9	39 3.4	9.832664	0 11	4 25
	2	14 47 1.91	4 38.50	17 15 9.5	41 44.1	9.829496	0 3	4 29
	3	14 42 23.41	4 45.18	16 33 25.4	43 26.7	9.828057	23 55	4 33
	4	14 37 38.23	−4 42.82	15 49 58.7	+44 0.6	9.828477	23 46	4 37
	5	14 32 55.41	4 31.28	−15 5 58.1	43 19.4	9.830823	23 38	4 42
	6	14 28 24.13	4 11.03	14 22 38.7	41 22.4	9.835088	23 29	4 46
	7	14 24 13.10	3 43.11	13 41 16.3	38 14.9	9.841191	23 21	4 50
	8	14 20 29.99	3 8.98	13 3 1.4	34 7.2	9.848982	23 13	4 54
	9	14 17 21.01	−2 30.35	12 28 54.2	+29 12.9	9.858254	23 6	4 57
	10	14 14 50.66	1 48.95	−11 59 41.3	23 47.4	9.868766	22 59	5 0
	11	14 13 1.71	1 6.42	11 35 53.9	18 6.1	9.880256	22 53	5 2
	12	14 11 55.29	−0 24.14	11 17 47.8	12 22.8	9.892465	22 48	5 3
	13	14 11 31.15	+0 16.77	11 5 25.0	6 48.7	9.905146	22 44	5 4
	14	14 11 47.92	+0 55.51	10 58 36.3	+ 1 32.4	9.918078	22 40	5 5
	15	14 12 43.43	1 31.52	−10 57 3.9	− 3 20.0	9.931069	22 37	5 5
	16	14 14 14.95	2 4.53	11 0 23.9	7 45.2	9.943961	22 35	5 5
	17	14 16 19.48	2 34.45	11 8 9.1	11 41.4	9.956627	22 33	5 4
	18	14 18 53.93	3 1.31	11 19 50.5	15 8.4	9.968968	22 32	5 3
	19	14 21 55.24	+3 25.26	11 34 58.9	−18 7.3	9.980911	22 31	5 2
	20	14 25 20.50	3 46.50	−11 53 6.2	20 39.6	9.992407	22 30	5 0
	21	14 29 7.00	4 5.26	12 13 45.8	22 47.0	0.003424	22 30	4 58
	22	14 33 12.26	4 21.80	12 36 32.8	24 31.8	0.013944	22 30	4 56
	23	14 37 34.06	4 36.37	13 1 4.6	25 56.5	0.023958	22 31	4 54
	24	14 42 10.43	+4 49.21	13 27 1.1	−27 3.1	0.033468	22 31	4 51
	25	14 46 59.64	5 0.54	−13 54 4.2	27 53.3	0.042484	22 32	4 49
	26	14 52 0.18	5 10.54	14 21 57.5	28 29.4	0.051018	22 33	4 46
	27	14 57 10.72	5 19.41	14 50 26.9	28 52.7	0.059084	22 34	4 43
	28	15 2 30.13	5 27.30	15 19 19.6	29 4.9	0.066701	22 36	4 40
	29	15 7 57.43	+5 34.36	15 48 24.5	−29 7.5	0.073887	22 37	4 37
	30	15 13 31.79	5 40.70	−16 17 32.0	29 1.6	0.080661	22 39	4 35
Dec.	1	15 19 12.49	5 46.43	16 46 33.6	28 48.1	0.087043	22 41	4 32
	2	15 24 58.92	5 51.64	17 15 21.7	28 27.7	0.093050	22 43	4 29
	3	15 30 50.56	5 56.39	17 43 49.4	28 1.4	0.098701	22 45	4 26
	4	15 36 46.95	+6 0.77	18 11 50.8	−27 30.1	0.104013	22 47	4 23
	5	15 42 47.72	6 4.83	−18 39 20.9	26 54.1	0.109002	22 49	4 20
	6	15 48 52.55	6 8.62	19 6 15.0	26 13.8	0.113684	22 51	4 17
	7	15 55 1.17	6 12.17	19 32 28.8	25 29.8	0.118074	22 53	4 14
	8	16 1 13.34	6 15.51	19 57 58.6	24 42.5	0.122184	22 55	4 11
	9	16 7 28.85		20 22 41.1		0.126027	22 57	4 8

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dec. 8	16 1 13.34	+6 15.51	−19 57 58.6	−24 42.5	0.122184	22 55	4 11
9	16 7 28.85	6 18.68	20 22 41.1	23 52.2	0.126027	22 57	4 8
10	16 13 47.53	6 21.70	20 46 33.3	22 59.1	0.129615	23 0	4 6
11	16 20 9.23	6 24.59	21 9 32.4	22 3.4	0.132960	23 3	4 3
12	16 26 33.82	+6 27.38	21 31 35.8	−21 5.3	0.136070	23 5	4 1
13	16 33 1.20	6 30.05	−21 52 41.1	20 5.0	0.138954	23 7	3 59
14	16 39 31.25	6 32.62	22 12 46.1	19 2.6	0.141621	23 10	3 56
15	16 46 3.87	6 35.12	22 31 48.7	17 58.2	0.144080	23 12	3 54
16	16 52 38.99	6 37.53	22 49 46.9	16 52.1	0.146336	23 15	3 52
17	16 59 16.52	+6 39.87	23 6 39.0	−15 44.4	0.148395	23 18	3 50
18	17 5 56.39	6 42.14	−23 22 23.4	14 35.0	0.150263	23 20	3 48
19	17 12 38.53	6 44.33	23 36 58.4	13 23.8	0.151945	23 23	3 46
20	17 19 22.86	6 46.46	23 50 22.2	12 11.1	0.153446	23 26	3 44
21	17 26 9.32	6 48.51	24 2 33.3	10 57.0	0.154769	23 29	3 43
22	17 32 57.83	+6 50.50	24 13 30.3	−9 41.5	0.155916	23 32	3 41
23	17 39 48.33	6 52.41	−24 23 11.8	8 24.5	0.156891	23 35	3 40
24	17 46 40.74	6 54.25	24 31 36.3	7 6.2	0.157696	23 38	3 39
25	17 53 34.99	6 56.00	24 38 42.5	5 46.8	0.158333	23 41	3 38
26	18 0 30.99	6 57.67	24 44 29.3	4 25.9	0.158801	23 44	3 37
27	18 7 28.66	+6 59.26	24 48 55.2	−3 3.6	0.159101	23 47	3 37
28	18 14 27.92	7 0.75	−24 51 58.8	1 40.2	0.159235	23 50	3 37
29	18 21 28.67	7 2.13	24 53 39.0	−0 15.7	0.159200	23 53	3 36
30	18 28 30.80	7 3.42	24 53 54.7	+1 10.1	0.158994	23 56	3 36
31	18 35 34.22	7 4.59	24 52 44.6	2 36.9	0.158617	23 59	3 36
32	18 42 38.81	+7 5.64	24 50 7.7	+4 4.7	0.158066	0 2	3 37
33	18 49 44.45		−24 46 3.0		0.157338	0 5	3 37

Wahrer geocentrischer Ort.

0h Mittl. Zeit		AR. h m s	Diff. m s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Oestl. Stunden-Winkel h m	Halber Tag-bogen h m
Jan.	0	16 34 39.33	+5 14.02	−20 41 36.6	−12 43.6	0.144921	21 57	4 7
	1	16 39 53.35	5 14.97	20 54 20.2	12 8.1	0.146477	21 58	4 5
	2	16 45 8.32	5 15.92	21 6 28.3	11 32.0	0.148018	22 0	4 4
	3	16 50 24.24	5 16.81	21 18 0.3	10 55.5	0.149543	22 1	4 2
	4	16 55 41.05	+5 17.67	21 28 55.8	−10 18.4	0.151051	22 2	4 1
	5	17 0 58.72	5 18.50	−21 39 14.2	9 40.7	0.152544	22 4	4 0
	6	17 6 17.22	5 19.29	21 48 54.9	9 2.7	0.154022	22 5	3 59
	7	17 11 36.51	5 20.04	21 57 57.6	8 24.3	0.155484	22 6	3 58
	8	17 16 56.55	5 20.73	22 6 21.9	7 45.3	0.156932	22 8	3 57
	9	17 22 17.28	+5 21.38	22 14 7.2	−7 5.9	0.158364	22 9	3 56
	10	17 27 38.66	5 21.99	−22 21 13.1	6 26.1	0.159782	22 11	3 55
	11	17 33 0.65	5 22.53	22 27 39.2	5 46.0	0.161184	22 12	3 54
	12	17 38 23.18	5 23.03	22 33 25.2	5 5.5	0.162571	22 13	3 54
	13	17 43 46.21	5 23.48	22 38 30.7	4 24.8	0.163943	22 15	3 53
	14	17 49 9.69	+5 23.86	22 42 55.5	−3 43.9	0.165300	22 16	3 52
	15	17 54 33.55	5 24.19	−22 46 39.4	3 2.7	0.166643	22 18	3 52
	16	17 59 57.74	5 24.46	22 49 42.1	2 21.2	0.167970	22 19	3 52
	17	18 5 22.20	5 24.67	22 52 3.3	1 39.8	0.169282	22 21	3 51
	18	18 10 46.87	5 24.81	22 53 43.1	0 58.2	0.170581	22 22	3 51
	19	18 16 11.68	+5 24.89	22 54 41.3	−0 16.3	0.171865	22 24	3 51
	20	18 21 36.57	5 24.93	−22 54 57.6	+0 25.5	0.173134	22 25	3 51
	21	18 27 1.50	5 24.89	22 54 32.1	1 7.2	0.174389	22 27	3 51
	22	18 32 26.39	5 24.78	22 53 24.9	1 49.0	0.175630	22 28	3 51
	23	18 37 51.17	5 24.63	22 51 35.9	2 30.9	0.176857	22 29	3 51
	24	18 43 15.80	+5 24.41	22 49 5.0	+3 12.7	0.178070	22 31	3 52
	25	18 48 40.21	5 24.13	−22 45 52.3	3 54.2	0.179270	22 32	3 52
	26	18 54 4.34	5 23.80	22 41 58.1	4 35.7	0.180456	22 34	3 53
	27	18 59 28.14	5 23.42	22 37 22.4	5 17.0	0.181628	22 35	3 53
	28	19 4 51.56	5 22.97	22 32 5.4	5 58.1	0.182787	22 37	3 54
	29	19 10 14.53	+5 22.49	22 26 7.3	+6 38.9	0.183934	22 38	3 54
	30	19 15 37.02	5 21.94	−22 19 28.4	7 19.7	0.185068	22 40	3 55
	31	19 20 58.96	5 21.35	22 12 8.7	8 0.0	0.186190	22 41	3 56
Febr.	1	19 26 20.31	5 20.72	22 4 8.7	8 40.1	0.187299	22 43	3 57
	2	19 31 41.03	5 20.05	21 55 28.6	9 19.7	0.188396	22 44	3 58
	3	19 37 1.08	+5 19.32	21 46 8.9	+9 58.9	0.189480	22 45	3 59
	4	19 42 20.40	5 18.56	−21 36 10.0	10 38.2	0.190552	22 47	4 0
	5	19 47 38.96	5 17.76	21 25 31.8	11 17.0	0.191612	22 48	4 2
	6	19 52 56.72	5 16.92	21 14 14.8	11 55.0	0.192660	22 49	4 3
	7	19 58 13.64	5 16.04	21 2 19.8	12 32.6	0.193694	22 51	4 4
	8	20 3 29.68		20 49 47.2		0.194715	22 52	4 6

Wahrer geocentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Febr. 7	19 58 13.64	+5 16.04	−21 2 19.8	+12 32.6	0.193694	22 51	4 4
8	20 3 29.68	5 15.13	20 49 47.2	13 9.8	0.194715	22 52	4 6
9	20 8 44.81	5 14.19	20 36 37.4	13 46.5	0.195726	22 53	4 7
10	20 13 59.00	5 13.23	20 22 50.9	14 22.7	0.196724	22 55	4 9
11	20 19 12.23	+5 12.22	20 8 28.2	+14 58.2	0.197710	22 56	4 10
12	20 24 24.45	5 11.20	−19 53 30.0	15 33.3	0.198684	22 57	4 12
13	20 29 35.65	5 10.15	19 37 56.7	16 7.7	0.199645	22 58	4 13
14	20 34 45.80	5 9.08	19 21 49.0	16 41.6	0.200594	23 0	4 15
15	20 39 54.88	5 8.00	19 5 7.4	17 14.8	0.201531	23 1	4 17
16	20 45 2.88	+5 6.89	18 47 52.6	+17 47.4	0.202456	23 2	4 19
17	20 50 9.77	5 5.77	−18 30 5.2	18 19.4	0.203368	23 3	4 21
18	20 55 15.54	5 4.64	18 11 45.8	18 50.6	0.204268	23 4	4 23
19	21 0 20.18	5 3.50	17 52 55.2	19 21.1	0.205156	23 6	4 25
20	21 5 23.68	5 2.34	17 33 34.1	19 51.1	0.206032	23 7	4 27
21	21 10 26.02	+5 1.19	17 13 43.0	+20 20.3	0.206896	23 8	4 29
22	21 15 27.21	5 0.04	−16 53 22.7	20 48.7	0.207748	23 9	4 31
23	21 20 27.25	4 58.88	16 32 34.0	21 16.5	0.208588	23 10	4 33
24	21 25 26.13	4 57.71	16 11 17.5	21 43.7	0.209416	23 11	4 35
25	21 30 23.84	4 56.58	15 49 33.8	22 10.1	0.210232	23 12	4 37
26	21 35 20.42	+4 55.44	15 27 23.7	+22 35.7	0.211037	23 13	4 40
27	21 40 15.86	4 54.31	−15 4 48.0	23 0.7	0.211831	23 14	4 42
28	21 45 10.17	4 53.20	14 41 47.3	23 25.0	0.212614	23 15	4 44
März 1	21 50 3.37	4 52.10	14 18 22.3	23 48.5	0.213385	23 16	4 46
2	21 54 55.47	4 51.02	13 54 33.8	24 11.3	0.214145	23 17	4 49
3	21 59 46.49	+4 49.97	13 30 22.5	+24 33.4	0.214894	23 18	4 51
4	22 4 36.46	4 48.94	−13 5 49.1	24 54.7	0.215632	23 19	4 53
5	22 9 25.40	4 47.92	12 40 54.4	25 15.3	0.216358	23 19	4 56
6	22 14 13.32	4 46.92	12 15 39.1	25 35.3	0.217073	23 20	4 58
7	22 19 0.24	4 45.95	11 50 3.8	25 54.5	0.217777	23 21	5 0
8	22 23 46.19	+4 45.01	11 24 9.3	+26 12.8	0.218471	23 22	5 3
9	22 28 31.20	4 44.10	−10 57 56.5	26 30.5	0.219153	23 23	5 5
10	22 33 15.30	4 43.23	10 31 26.0	26 47.5	0.219823	23 23	5 8
11	22 37 58.53	4 42.38	10 4 38.5	27 3.8	0.220482	23 24	5 10
12	22 42 40.91	4 41.54	9 37 34.7	27 19.3	0.221130	23 25	5 13
13	22 47 22.45	+4 40.75	9 10 15.4	+27 33.9	0.221766	23 26	5 15
14	22 52 3.20	4 39.99	−8 42 41.5	27 48.0	0.222391	23 27	5 18
15	22 56 43.19	4 39.26	8 14 53.5	28 1.2	0.223005	23 27	5 20
16	23 1 22.45	4 38.57	7 46 52.3	28 13.7	0.223607	23 28	5 23
17	23 6 1.02	4 37.90	7 18 38.6	28 25.5	0.224196	23 29	5 25
18	23 10 38.92		6 50 13.1		0.224774	23 29	5 28

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	23 6 1.02	+4 37.90	− 7 18 38.6	+28 25.5	0.224196	23 29	5 25
18	23 10 38.92	4 37.28	6 50 13.1	28 36.6	0.224774	23 29	5 28
19	23 15 16.20	4 36.68	6 21 36.5	28 46.8	0.225340	23 30	5 30
20	23 19 52.88	4 36.12	5 52 49.7	28 56.4	0.225895	23 31	5 33
21	23 24 29.00	+4 35.59	5 23 53.3	+29 5.1	0.226438	23 31	5 35
22	23 29 4.59	4 35.11	− 4 54 48.2	29 13.2	0.226968	23 32	5 38
23	23 33 39.70	4 34.65	4 25 35.0	29 20.5	0.227486	23 33	5 41
24	23 38 14.35	4 34.24	3 56 14.5	29 27.2	0.227993	23 33	5 43
25	23 42 48.59	4 33.86	3 26 47.3	29 33.1	0.228488	23 34	5 46
26	23 47 22.45	+4 33.52	2 57 14.2	+29 38.2	0.228971	23 35	5 48
27	23 51 55.97	4 33.24	− 2 27 36.0	29 42.7	0.229442	23 35	5 51
28	23 56 29.21	4 32.97	1 57 53.3	29 46.4	0.229902	23 36	5 53
29	0 1 2.18	4 32.75	1 28 6.9	29 49.5	0.230350	23 36	5 56
30	0 5 34.93	4 32.60	0 58 17.4	29 51.8	0.230787	23 37	5 59
31	0 10 7.53	+4 32.47	− 0 28 25.6	+29 53.5	0.231212	23 38	6 1
April 1	0 14 40.00	4 32.38	+ 0 1 27.9	29 54.4	0.231625	23 38	6 4
2	0 19 12.38	4 32.35	0 31 22.3	29 54.6	0.232027	23 39	6 6
3	0 23 44.73	4 32.34	1 1 16.9	29 54.2	0.232417	23 39	6 9
4	0 28 17.07	4 32.39	1 31 11.1	29 53.0	0.232795	23 40	6 12
5	0 32 49.46	+4 32.49	2 1 4.1	+29 51.1	0.233161	23 41	6 14
6	0 37 21.95	4 32.61	+ 2 30 55.2	29 48.5	0.233515	23 41	6 17
7	0 41 54.56	4 32.79	3 0 43.7	29 45.2	0.233859	23 42	6 19
8	0 46 27.35	4 33.01	3 30 28.9	29 41.2	0.234191	23 42	6 22
9	0 51 0.36	4 33.26	4 0 10.1	29 36.4	0.234510	23 43	6 25
10	0 55 33.62	+4 33.57	4 29 46.5	+29 31.0	0.234816	23 44	6 27
11	1 0 7.19	4 33.91	+ 4 59 17.5	29 24.9	0.235110	23 44	6 30
12	1 4 41.10	4 34.29	5 28 42.4	29 18.0	0.235392	23 45	6 32
13	1 9 15.39	4 34.71	5 58 0.4	29 10.3	0.235662	23 45	6 35
14	1 13 50.10	4 35.17	6 27 10.7	29 2.0	0.235919	23 46	6 38
15	1 18 25.27	+4 35.68	6 56 12.7	+28 52.9	0.236163	23 47	6 40
16	1 23 0.95	4 36.20	+ 7 25 5.6	28 43.1	0.236395	23 47	6 43
17	1 27 37.15	4 36.77	7 53 48.7	28 32.6	0.236614	23 48	6 45
18	1 32 13.92	4 37.38	8 22 21.3	28 21.2	0.236819	23 49	6 48
19	1 36 51.30	4 38.01	8 50 42.5	28 9.2	0.237012	23 49	6 50
20	1 41 29.31	+4 38.68	9 18 51.7	+27 56.5	0.237191	23 50	6 53
21	1 46 7.99	4 39.38	+ 9 46 48.2	27 43.1	0.237357	23 51	6 56
22	1 50 47.37	4 40.10	10 14 31.3	27 28.7	0.237509	23 52	6 58
23	1 55 27.47	4 40.87	10 42 0.0	27 13.5	0.237649	23 52	7 1
24	2 0 8.34	4 41.68	11 9 13.5	26 57.8	0.237776	23 53	7 3
25	2 4 50.02		11 36 11.3		0.237889	23 54	7 6

Wahrer geocentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
April	24	2 0 8.34	+4 41.68	+11 9 13.5	+26 57.8	0.237776	23 53	7 3
	25	2 4 50.02	4 42.50	11 36 11.3	26 41.5	0.237889	23 54	7 6
	26	2 9 32.52	4 43.34	12 2 52.8	26 24.2	0.237989	23 55	7 8
	27	2 14 15.86	4 44.24	12 29 17.0	26 6.3	0.238076	23 55	7 11
	28	2 19 0.10	+4 45.15	12 55 23.3	+25 47.7	0.238150	23 56	7 13
	29	2 23 45.25	4 46.09	+13 21 11.0	25 28.3	0.238211	23 57	7 16
	30	2 28 31.34	4 47.05	13 46 39.3	25 8.1	0.238258	23 58	7 18
Mai	1	2 33 18.39	4 48.04	14 11 47.4	24 47.2	0.238292	23 59	7 21
	2	2 38 6.43	4 49.05	14 36 34.6	24 25.7	0.238313	23 59	7 23
	3	2 42 55.48	+4 50.09	15 1 0.3	+24 3.2	0.238320	0 0	7 26
	4	2 47 45.57	4 51.14	+15 25 3.5	23 40.2	0.238314	0 1	7 28
	5	2 52 36.71	4 52.22	15 48 43.7	23 16.3	0.238295	0 2	7 31
	6	2 57 28.93	4 53.30	16 12 0.0	22 51.9	0.238263	0 3	7 33
	7	3 2 22.23	4 54.40	16 34 51.9	22 26.5	0.238216	0 4	7 36
	8	3 7 16.63	+4 55.52	16 57 18.4	+22 0.5	0.238156	0 5	7 38
	9	3 12 12.15	4 56.64	+17 19 18.9	21 33.8	0.238082	0 6	7 40
	10	3 17 8.79	4 57.77	17 40 52.7	21 6.4	0.237995	0 7	7 42
	11	3 22 6.56	4 58.92	18 1 59.1	20 38.1	0.237894	0 8	7 45
	12	3 27 5.48	5 0.06	18 22 37.2	20 9.2	0.237778	0 9	7 47
	13	3 32 5.54	+5 1.19	18 42 46.4	+19 39.6	0.237648	0 10	7 49
	14	3 37 6.73	5 2.33	+19 2 26.0	19 9.3	0.237504	0 11	7 51
	15	3 42 9.06	5 3.46	19 21 35.3	18 38.3	0.237345	0 12	7 53
	16	3 47 12.52	5 4.57	19 40 13.6	18 6.7	0.237171	0 13	7 56
	17	3 52 17.09	5 5.68	19 58 20.3	17 34.2	0.236983	0 14	7 58
	18	3 57 22.77	+5 6.78	20 15 54.5	+17 1.2	0.236780	0 15	8 0
	19	4 2 29.55	5 7.84	+20 32 55.7	16 27.7	0.236562	0 17	8 2
	20	4 7 37.39	5 8.89	20 49 23.4	15 53.3	0.236328	0 18	8 3
	21	4 12 46.28	5 9.93	21 5 16.7	15 18.4	0.236080	0 19	8 5
	22	4 17 56.21	5 10.92	21 20 35.1	14 42.7	0.235817	0 20	8 7
	23	4 23 7.13	+5 11.91	21 35 17.8	+14 6.7	0.235539	0 22	8 9
	24	4 28 19.04	5 12.86	+21 49 24.5	13 30.1	0.235246	0 23	8 11
	25	4 33 31.90	5 13.77	22 2 54.6	12 52.8	0.234938	0 24	8 12
	26	4 38 45.67	5 14.66	22 15 47.4	12 15.0	0.234615	0 25	8 14
	27	4 44 0.33	5 15.52	22 28 2.4	11 36.8	0.234276	0 27	8 15
	28	4 49 15.85	+5 16.33	22 39 39.2	+10 58.0	0.233922	0 28	8 17
	29	4 54 32.18	5 17.10	+22 50 37.2	10 18.7	0.233554	0 29	8 18
	30	4 59 49.28	5 17.84	23 0 55.9	9 39.1	0.233172	0 31	8 19
	31	5 5 7.12	5 18.53	23 10 35.0	8 59.0	0.232774	0 32	8 21
Juni	1	5 10 25.65	5 19.17	23 19 34.0	8 18.5	0.232362	0 33	8 22
	2	5 15 44.82		23 27 52.5		0.231934	0 35	8 23

Wahrer geocentrischer Ort.

0h Mittl. Zeit		AR. h m s	Diff. m s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Oestl. Stunden-Winkel h m	Halber Tag-bogen h m
Juni	1	5 10 25.65	+5 19.17	+23 19 34.0	+ 8 18.5	0.232362	0 33	8 22
	2	5 15 44.82	5 19.78	23 27 52.5	7 37.6	0.231934	0 35	8 23
	3	5 21 4.60	5 20.33	23 35 30.1	6 56.4	0.231490	0 36	8 24
	4	5 26 24.93	5 20.83	23 42 26.5	6 14.8	0.231031	0 37	8 25
	5	5 31 45.76	+5 21.28	23 48 41.3	+ 5 33.0	0.230557	0 39	8 25
	6	5 37 7.04	5 21.67	+23 54 14.3	4 51.0	0.230068	0 40	8 26
	7	5 42 28.71	5 22.02	23 59 5.3	4 8.6	0.229565	0 42	8 27
	8	5 47 50.73	5 22.31	24 3 13.9	3 26.1	0.229046	0 43	8 27
	9	5 53 13.04	5 22.53	24 6 40.0	2 43.3	0.228511	0 45	8 28
	10	5 58 35.57	+5 22.71	24 9 23.3	+ 2 0.6	0.227960	0 46	8 28
	11	6 3 58.28	5 22.82	+24 11 23.9	1 17.6	0.227394	0 48	8 28
	12	6 9 21.10	5 22.86	24 12 41.5	+ 0 34.5	0.226812	0 49	8 29
	13	6 14 43.96	5 22.85	24 13 16.0	− 0 8.5	0.226214	0 50	8 29
	14	6 20 6.81	5 22.77	24 13 7.5	0 51.6	0.225600	0 52	8 29
	15	6 25 29.58	+5 22.64	24 12 15.9	− 1 34.7	0.224970	0 53	8 28
	16	6 30 52.22	5 22.42	+24 10 41.2	2 17.7	0.224323	0 55	8 28
	17	6 36 14.64	5 22.15	24 8 23.5	3 0.5	0.223660	0 56	8 28
	18	6 41 36.79	5 21.83	24 5 23.0	3 43.3	0.222981	0 58	8 28
	19	6 46 58.62	5 21.43	24 1 39.7	4 26.0	0.222286	0 59	8 27
	20	6 52 20.05	+5 20.98	23 57 13.7	− 5 8.4	0.221574	1 0	8 27
	21	6 57 41.03	5 20.47	+23 52 5.3	5 50.7	0.220845	1 2	8 26
	22	7 3 1.50	5 19.90	23 46 14.6	6 32.8	0.220100	1 3	8 25
	23	7 8 21.40	5 19.28	23 39 41.8	7 14.5	0.219339	1 4	8 24
	24	7 13 40.68	5 18.60	23 32 27.3	7 55.7	0.218562	1 6	8 23
	25	7 18 59.28	+5 17.87	23 24 31.6	− 8 36.9	0.217768	1 7	8 22
	26	7 24 17.15	5 17.09	+23 15 54.7	9 17.8	0.216957	1 9	8 21
	27	7 29 34.24	5 16.27	23 6 36.9	9 58.1	0.216131	1 10	8 20
	28	7 34 50.51	5 15.41	22 56 38.8	10 38.1	0.215289	1 11	8 19
	29	7 40 5.92	5 14.49	22 46 0.7	11 17.7	0.214431	1 13	8 17
	30	7 45 20.41	+5 13.54	22 34 43.0	−11 56.8	0.213556	1 14	8 16
Juli	1	7 50 33.95	5 12.56	+22 22 46.2	12 35.4	0.212666	1 15	8 15
	2	7 55 46.51	5 11.53	22 10 10.8	13 13.6	0.211758	1 17	8 13
	3	8 0 58.04	5 10.48	21 56 57.2	13 51.4	0.210834	1 18	8 11
	4	8 6 8.52	5 9.40	21 43 5.8	14 28.4	0.209895	1 19	8 10
	5	8 11 17.92	+5 8.29	21 28 37.4	−15 5.0	0.208941	1 20	8 8
	6	8 16 26.21	5 7.17	+21 13 32.4	15 41.1	0.207970	1 21	8 6
	7	8 21 33.38	5 6.00	20 57 51.3	16 16.5	0.206982	1 22	8 4
	8	8 26 39.38	5 4.83	20 41 34.8	16 51.4	0.205978	1 24	8 3
	9	8 31 44.21	5 3.65	20 24 43.4	17 25.6	0.204958	1 25	8 1
	10	8 36 47.86		20 7 17.8		0.203921	1 26	7 59

Wahrer geocentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ' "	' "		h m	h m
Juli	9	8 31 44.21	+5 3.65	+20 24 43.4	−17 25.6	0.204958	1 25	8 1
	10	8 36 47.86	5 2.43	20 7 17.8	17 59.2	0.203921	1 26	7 59
	11	8 41 50.29	5 1.21	19 49 18.6	18 32.3	0.202867	1 27	7 57
	12	8 46 51.50	4 59.99	19 30 46.3	19 4.7	0.201797	1 28	7 54
	13	8 51 51.49	+4 58.74	19 11 41.6	−19 36.2	0.200710	1 29	7 52
	14	8 56 50.23	4 57.49	+18 52 5.4	20 7.1	0.199606	1 30	7 50
	15	9 1 47.72	4 56.23	18 31 58.3	20 37.5	0.198486	1 31	7 48
	16	9 6 43.95	4 54.96	18 11 20.8	21 7.0	0.197348	1 32	7 46
	17	9 11 38.91	4 53.71	17 50 13.8	21 35.8	0.196193	1 33	7 43
	18	9 16 32.62	+4 52.44	17 28 38.0	−22 4.1	0.195020	1 34	7 41
	19	9 21 25.06	4 51.17	+17 6 33.9	22 31.5	0.193831	1 35	7 39
	20	9 26 16.23	4 49.92	16 44 2.4	22 58.2	0.192625	1 36	7 37
	21	9 31 6.15	4 48.69	16 21 4.2	23 24.1	0.191402	1 37	7 34
	22	9 35 54.84	4 47.44	15 57 40.1	23 49.4	0.190161	1 38	7 32
	23	9 40 42.28	+4 46.21	15 33 50.7	−24 14.0	0.188903	1 39	7 29
	24	9 45 28.49	4 45.00	+15 9 36.7	24 37.8	0.187629	1 40	7 27
	25	9 50 13.49	4 43.81	14 44 58.9	25 0.9	0.186338	1 40	7 24
	26	9 54 57.30	4 42.63	14 19 58.0	25 23.2	0.185030	1 41	7 22
	27	9 59 39.93	4 41.48	13 54 34.8	25 45.0	0.183704	1 42	7 19
	28	10 4 21.41	+4 40.35	13 28 49.8	−26 5.8	0.182362	1 42	7 17
	29	10 9 1.76	4 39.23	+13 2 44.0	26 26.0	0.181003	1 43	7 14
	30	10 13 40.99	4 38.16	12 36 18.0	26 45.5	0.179628	1 44	7 12
	31	10 18 19.15	4 37.09	12 9 32.5	27 4.2	0.178235	1 45	7 9
Aug.	1	10 22 56.24	4 36.07	11 42 28.3	27 22.4	0.176826	1 45	7 6
	2	10 27 32.31	+4 35.08	11 15 5.9	−27 39.7	0.175400	1 46	7 4
	3	10 32 7.39	4 34.11	+10 47 26.2	27 56.3	0.173957	1 47	7 1
	4	10 36 41.50	4 33.19	10 19 29.9	28 12.3	0.172498	1 47	6 59
	5	10 41 14.69	4 32.29	9 51 17.6	28 27.5	0.171023	1 48	6 56
	6	10 45 46.98	4 31.43	9 22 50.1	28 42.0	0.169531	1 49	6 53
	7	10 50 18.41	+4 30.60	8 54 8.1	−28 55.8	0.168023	1 49	6 51
	8	10 54 49.01	4 29.81	+ 8 25 12.3	29 8.9	0.166497	1 50	6 48
	9	10 59 18.82	4 29.06	7 56 3.4	29 21.2	0.164953	1 50	6 45
	10	11 3 47.88	4 28.35	7 26 42.2	29 32.9	0.163391	1 51	6 43
	11	11 8 16.23	4 27.66	6 57 9.3	29 44.0	0.161812	1 51	6 40
	12	11 12 43.89	+4 27.01	6 27 25.3	−29 54.1	0.160216	1 52	6 38
	13	11 17 10.90	4 26.40	+ 5 57 31.2	30 3.6	0.158603	1 52	6 35
	14	11 21 37.30	4 25.82	5 27 27.6	30 12.4	0.156972	1 53	6 32
	15	11 26 3.12	4 25.28	4 57 15.2	30 20.4	0.155323	1 53	6 30
	16	11 30 28.40	4 24.78	4 26 54.8	30 27.9	0.153656	1 54	6 27
	17	11 34 53.18		3 56 26.9		0.151971	1 54	6 24

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	11 30 28.40	+4 24.78	+ 4 26 54.8	−30 27.9	0.153656	1 54	6 27
17	11 34 53.18	4 24.32	3 56 26.9	30 34.5	0.151971	1 54	6 24
18	11 39 17.50	4 23.89	3 25 52.4	30 40.4	0.150268	1 55	6 22
19	11 43 41.39	4 23.49	2 55 12.0	30 45.7	0.148547	1 55	6 19
20	11 48 4.88	+4 23.14	2 24 26.3	−30 50.2	0.146808	1 56	6 16
21	11 52 28.02	4 22.83	+ 1 53 36.1	30 54.0	0.145051	1 56	6 14
22	11 56 50.85	4 22.57	1 22 42.1	30 57.2	0.143276	1 57	6 11
23	12 1 13.42	4 22.33	0 51 44.9	30 59.7	0.141483	1 57	6 8
24	12 5 35.75	4 22.13	+ 0 20 45.2	31 1.4	0.139672	1 57	6 5
25	12 9 57.88	+4 21.98	− 0 10 16.2	−31 2.5	0.137843	1 58	6 3
26	12 14 19.86	4 21.87	− 0 41 18.7	31 2.8	0.135995	1 58	6 0
27	12 18 41.73	4 21.80	1 12 21.5	31 2.6	0.134130	1 59	5 57
28	12 23 3.53	4 21.76	1 43 24.1	31 1.6	0.132246	1 59	5 55
29	12 27 25.29	4 21.78	2 14 25.7	30 59.9	0.130345	2 0	5 52
30	12 31 47.07	+4 21.85	2 45 25.6	−30 57.6	0.128426	2 0	5 49
31	12 36 8.92	4 21.95	− 3 16 23.2	30 54.6	0.126489	2 0	5 47
Sept. 1	12 40 30.87	4 22.08	3 47 17.8	30 50.9	0.124534	2 1	5 44
2	12 44 52.95	4 22.28	4 18 8.7	30 46.6	0.122561	2 1	5 41
3	12 49 15.23	4 22.51	4 48 55.3	30 41.5	0.120569	2 2	5 38
4	12 53 37.74	+4 22.78	5 19 36.8	−30 35.8	0.118558	2 2	5 36
5	12 58 0.52	4 23.10	− 5 50 12.6	30 29.4	0.116530	2 3	5 33
6	13 2 23.62	4 23.45	6 20 42.0	30 22.3	0.114483	2 3	5 30
7	13 6 47.07	4 23.85	6 51 4.3	30 14.4	0.112417	2 3	5 28
8	13 11 10.92	4 24.29	7 21 18.7	30 5.9	0.110332	2 4	5 25
9	13 15 35.21	+4 24.75	7 51 24.6	−29 56.8	0.108228	2 4	5 22
10	13 19 59.96	4 25.26	− 8 21 21.4	29 46.8	0.106104	2 5	5 20
11	13 24 25.22	4 25.79	8 51 8.2	29 36.1	0.103960	2 5	5 17
12	13 28 51.01	4 26.37	9 20 44.3	29 24.7	0.101797	2 6	5 14
13	13 33 17.38	4 26.98	9 50 9.0	29 12.6	0.099614	2 6	5 12
14	13 37 44.36	+4 27.62	10 19 21.6	−28 59.8	0.097410	2 7	5 9
15	13 42 11.98	4 28.28	−10 48 21.4	28 46.2	0.095186	2 8	5 6
16	13 46 40.26	4 28.97	11 17 7.6	28 32.0	0.092942	2 8	5 4
17	13 51 9.23	4 29.70	11 45 39.6	28 17.0	0.090676	2 8	5 1
18	13 55 38.93	4 30.45	12 13 56.6	28 1.3	0.088390	2 9	4 58
19	14 0 9.38	+4 31.23	12 41 57.9	−27 44.7	0.086082	2 10	4 56
20	14 4 40.61	4 32.03	−13 9 42.6	27 27.5	0.083754	2 10	4 53
21	14 9 12.64	4 32.85	13 37 10.1	27 9.6	0.081404	2 11	4 50
22	14 13 45.49	4 33.70	14 4 19.7	26 51.0	0.079033	2 11	4 48
23	14 18 19.19	4 34.58	14 31 10.7	26 31.6	0.076641	2 12	4 45
24	14 22 53.77		14 57 42.3		0.074227	2 13	4 43

Wahrer geocentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Sept. 23	14 18 19.19	+4 34.58	−14 31 10.7	−26 31.6	0.076641	2 12	4 45
24	14 22 53.77	4 35.47	14 57 42.3	26 11.5	0.074227	2 13	4 43
25	14 27 29.24	4 36.37	15 23 53.8	25 50.6	0.071792	2 13	4 40
26	14 32 5.61	4 37.30	15 49 44.4	25 29.1	0.069335	2 14	4 37
27	14 36 42.91	+4 38.25	16 15 13.5	−25 6.8	0.066856	2 15	4 35
28	14 41 21.16	4 39.21	−16 40 20.3	24 43.8	0.064356	2 15	4 32
29	14 46 0.37	4 40.20	17 5 4.1	24 20.0	0.061834	2 16	4 30
30	14 50 40.57	4 41.19	17 29 24.1	23 55.8	0.059289	2 17	4 27
Oct. 1	14 55 21.76	4 42.19	17 53 19.9	23 31.0	0.056723	2 17	4 25
2	15 0 3.95	+4 43.22	18 16 50.9	−23 4.7	0.054134	2 18	4 22
3	15 4 47.17	4 44.24	−18 39 55.6	22 38.0	0.051522	2 19	4 20
4	15 9 31.41	4 45.28	19 2 33.6	22 10.8	0.048887	2 20	4 17
5	15 14 16.69	4 46.32	19 24 44.4	21 43.0	0.046229	2 21	4 15
6	15 19 3.01	4 47.34	19 46 27.4	21 14.3	0.043548	2 22	4 13
7	15 23 50.35	+4 48.37	20 7 41.7	−20 44.9	0.040843	2 22	4 10
8	15 28 38.72	4 49.39	−20 28 26.6	20 15.0	0.038113	2 23	4 8
9	15 33 28.11	4 50.41	20 48 41.6	19 44.2	0.035358	2 24	4 6
10	15 38 18.52	4 51.39	21 8 25.8	19 12.9	0.032579	2 25	4 3
11	15 43 9.91	4 52.37	21 27 38.7	18 41.0	0.029775	2 26	4 1
12	15 48 2.28	+4 53.33	21 46 19.7	−18 8.3	0.026945	2 27	3 59
13	15 52 55.61	4 54.26	−22 4 28.0	17 35.0	0.024088	2 28	3 57
14	15 57 49.87	4 55.15	22 22 3.0	17 1.1	0.021206	2 29	3 55
15	16 2 45.02	4 56.03	22 39 4.1	16 26.5	0.018297	2 30	3 53
16	16 7 41.05	4 56.87	22 55 30.6	15 51.4	0.015360	2 31	3 51
17	16 12 37.92	+4 57.67	23 11 22.0	−15 15.7	0.012396	2 32	3 49
18	16 17 35.59	4 58.42	−23 26 37.7	14 39.5	0.009404	2 33	3 47
19	16 22 34.01	4 59.14	23 41 17.2	14 2.8	0.006384	2 34	3 45
20	16 27 33.15	4 59.81	23 55 20.0	13 25.5	0.003336	2 35	3 44
21	16 32 32.96	5 0.43	24 8 45.5	12 47.7	0.000259	2 36	3 42
22	16 37 33.39	+5 1.00	24 21 33.2	−12 9.5	9.997153	2 37	3 40
23	16 42 34.39	5 1.51	−24 33 42.7	11 30.9	9.994018	2 38	3 39
24	16 47 35.90	5 1.96	24 45 13.6	10 51.7	9.990854	2 39	3 37
25	16 52 37.86	5 2.36	24 56 5.3	10 12.3	9.987659	2 40	3 36
26	16 57 40.22	5 2.71	25 6 17.6	9 32.4	9.984435	2 41	3 34
27	17 2 42.93	+5 2.98	25 15 50.0	− 8 52.3	9.981181	2 42	3 33
28	17 7 45.91	5 3.21	−25 24 42.3	8 11.8	9.977896	2 43	3 32
29	17 12 49.12	5 3.37	25 32 54.1	7 31.1	9.974581	2 44	3 31
30	17 17 52.49	5 3.46	25 40 25.2	6 50.0	9.971234	2 46	3 30
31	17 22 55.95	5 3.49	25 47 15.2	6 8.7	9.967856	2 47	3 29
Nov. 1	17 27 59.44		25 53 23.9		9.964447	2 48	3 28

Wahrer geocentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Oct. 31	17 22 55.95	+5 3.49	−25 47 15.2	−6 8.7	9.967856	2 47	3 29
Nov. 1	17 27 59.44	5 3.46	25 53 23.9	5 27.4	9.964447	2 48	3 28
2	17 33 2.90	5 3.35	25 58 51.3	4 46.1	9.961005	2 49	3 27
3	17 38 6.25	5 3.16	26 3 37.4	4 4.3	9.957531	2 50	3 27
4	17 43 9.41	+5 2.90	26 7 41.7	−3 22.2	9.954024	2 51	3 26
5	17 48 12.31	5 2.57	−26 11 3.9	2 40.6	9.950482	2 52	3 26
6	17 53 14.88	5 2.16	26 13 44.5	1 58.9	9.946905	2 53	3 25
7	17 58 17.04	5 1.66	26 15 43.4	1 16.9	9.943293	2 54	3 25
8	18 3 18.70	5 1.07	26 17 0.3	−0 35.2	9.939646	2 55	3 25
9	18 8 19.77	+5 0.42	26 17 35.5	+0 6.5	9.935962	2 56	3 25
10	18 13 20.19	4 59.66	−26 17 29.0	0 47.9	9.932242	2 58	3 25
11	18 18 19.85	4 58.82	26 16 41.1	1 29.2	9.928484	2 59	3 25
12	18 23 18.67	4 57.90	26 15 11.9	2 10.4	9.924688	3 0	3 25
13	18 28 16.57	4 56.89	26 13 1.5	2 51.3	9.920853	3 1	3 26
14	18 33 13.46	+4 55.78	26 10 10.2	+3 32.0	9.916978	3 2	3 26
15	18 38 9.24	4 54.59	−26 6 38.2	4 12.3	9.913064	3 3	3 26
16	18 43 3.83	4 53.32	26 2 25.9	4 52.3	9.909109	3 4	3 27
17	18 47 57.15	4 51.95	25 57 33.6	5 31.9	9.905112	3 5	3 28
18	18 52 49.10	4 50.50	25 52 1.7	6 11.0	9.901073	3 6	3 28
19	18 57 39.60	+4 48.95	25 45 50.7	+6 49.6	9.896992	3 7	3 29
20	19 2 28.55	4 47.33	−25 39 1.1	7 28.0	9.892869	3 7	3 30
21	19 7 15.88	4 45.62	25 31 33.1	8 5.8	9.888702	3 8	3 31
22	19 12 1.50	4 43.81	25 23 27.3	8 42.9	9.884491	3 9	3 32
23	19 16 45.31	4 41.94	25 14 44.4	9 19.5	9.880235	3 10	3 33
24	19 21 27.25	+4 39.99	25 5 24.9	+9 55.8	9.875935	3 10	3 35
25	19 26 7.24	4 37.97	−24 55 29.1	10 31.2	9.871590	3 11	3 36
26	19 30 45.21	4 35.87	24 44 57.9	11 6.0	9.867199	3 12	3 37
27	19 35 21.08	4 33.70	24 33 51.9	11 40.3	9.862762	3 12	3 39
28	19 39 54.78	4 31.46	24 22 11.6	12 13.9	9.858278	3 13	3 40
29	19 44 26.24	+4 29.16	24 9 57.7	+12 46.7	9.853747	3 14	3 42
30	19 48 55.40	4 26.80	−23 57 11.0	13 18.9	9.849168	3 14	3 43
Dec. 1	19 53 22.20	4 24.37	23 43 52.1	13 50.3	9.844540	3 15	3 45
2	19 57 46.57	4 21.88	23 30 1.8	14 20.9	9.839863	3 15	3 47
3	20 2 8.45	4 19.31	23 15 40.9	14 50.8	9.835136	3 16	3 48
4	20 6 27.76	+4 16.68	23 0 50.1	+15 19.7	9.830358	3 16	3 50
5	20 10 44.44	4 13.99	−22 45 30.4	15 47.9	9.825528	3 17	3 52
6	20 14 58.43	4 11.23	22 29 42.5	16 15.3	9.820646	3 17	3 54
7	20 19 9.66	4 8.40	22 13 27.2	16 41.7	9.815711	3 17	3 56
8	20 23 18.06	4 5.50	21 56 45.5	17 7.5	9.810722	3 17	3 58
9	20 27 23.56		21 39 38.0		9.805678	3 17	4 0

Wahrer geocentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dec. 8	20 23 18.06	+4 5.50	−21 56 45.5	+17 7.5	9.810722	3 17	3 58
9	20 27 23.56	4 2.53	21 39 38.0	17 32.1	9.805678	3 17	4 0
10	20 31 26.09	3 59.49	21 22 5.9	17 55.6	9.800578	3 18	4 2
11	20 35 25.58	3 56.37	21 4 10.3	18 18.3	9.795421	3 18	4 4
12	20 39 21.95	+3 53.19	20 45 52.0	+18 40.2	9.790207	3 18	4 6
13	20 43 15.14	3 49.93	−20 27 11.8	19 0.9	9.784935	3 18	4 8
14	20 47 5.07	3 46.58	20 8 10.9	19 20.6	9.779605	3 18	4 10
15	20 50 51.65	3 43.16	19 48 50.3	19 39.4	9.774215	3 17	4 12
16	20 54 34.81	3 39.65	19 29 10.9	19 57.0	9.768765	3 17	4 14
17	20 58 14.46	+3 36.06	19 9 13.9	+20 13.6	9.763254	3 17	4 17
18	21 1 50.52	3 32.38	−18 49 0.3	20 29.1	9.757682	3 16	4 19
19	21 5 22.90	3 28.60	18 28 31.2	20 43.4	9.752049	3 16	4 21
20	21 8 51.50	3 24.73	18 7 47.8	20 56.7	9.746355	3 16	4 23
21	21 12 16.23	3 20.76	17 46 51.1	21 8.9	9.740599	3 15	4 25
22	21 15 36.99	+3 16.72	17 25 42.2	+21 19.9	9.734781	3 14	4 28
23	21 18 53.71	3 12.56	−17 4 22.3	21 29.8	9.728901	3 13	4 30
24	21 22 6.27	3 8.32	16 42 52.5	21 38.5	9.722959	3 12	4 32
25	21 25 14.59	3 3.96	16 21 14.0	21 46.2	9.716956	3 11	4 34
26	21 28 18.55	2 59.51	15 59 27.8	21 52.8	9.710894	3 10	4 36
27	21 31 18.06	+2 54.94	15 37 35.0	+21 57.9	9.704771	3 9	4 39
28	21 34 13.00	2 50.27	−15 15 37.1	22 1.7	9.698589	3 8	4 41
29	21 37 3.27	2 45.49	14 53 35.4	22 4.2	9.692347	3 7	4 43
30	21 39 48.76	2 40.58	14 31 31.2	22 6.1	9.686047	3 6	4 45
31	21 42 29.34	2 35.55	14 9 25.1	22 6.1	9.679690	3 5	4 47
32	21 45 4.89		13 47 19.0		9.673276	3 4	4 49

Wahrer geocentrischer Ort.

0ʰ Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Jan.	0	10 56 55.81	+0 35.10	+10 10 48.9	−1 27.2	9.975274	16 19	6 58
	1	10 57 30.91	0 32.76	10 9 21.7	1 12.2	9.971486	16 16	6 58
	2	10 58 3.67	0 30.38	10 8 9.5	0 57.1	9.967692	16 12	6 58
	3	10 58 34.05	0 27.95	10 7 12.4	0 41.8	9.963895	16 9	6 57
	4	10 59 2.00	+0 25.48	10 6 30.6	−0 26.3	9.960096	16 6	6 57
	5	10 59 27.48	0 22.96	+10 6 4.3	−0 10.5	9.956296	16 2	6 57
	6	10 59 50.44	0 20.41	10 5 53.8	+0 5.7	9.952496	15 59	6 57
	7	11 0 10.85	0 17.81	10 5 59.5	0 22.0	9.948699	15 55	6 57
	8	11 0 28.66	0 15.14	10 6 21.5	0 38.5	9.944907	15 51	6 57
	9	11 0 43.80	+0 12.44	10 7 0.0	+0 55.2	9.941121	15 48	6 57
	10	11 0 56.24	0 9.70	+10 7 55.2	1 12.1	9.937345	15 44	6 58
	11	11 1 5.94	0 6.91	10 9 7.3	1 29.2	9.933582	15 40	6 58
	12	11 1 12.85	0 4.11	10 10 36.5	1 46.5	9.929833	15 36	6 58
	13	11 1 16.96	+0 1.28	10 12 23.0	2 3.8	9.926100	15 32	6 58
	14	11 1 18.24	−0 1.62	10 14 26.8	+2 21.2	9.922385	15 28	6 58
	15	11 1 16.62	0 4.59	+10 16 48.0	2 38.7	9.918692	15 24	6 58
	16	11 1 12.03	0 7.57	10 19 26.7	2 56.2	9.915026	15 20	6 59
	17	11 1 4.46	0 10.57	10 22 22.9	3 13.8	9.911390	15 16	6 59
	18	11 0 53.89	0 13.57	10 25 36.7	3 31.3	9.907785	15 12	6 59
	19	11 0 40.32	−0 16.59	10 29 8.0	+3 48.6	9.904213	15 8	7 0
	20	11 0 23.73	0 19.65	+10 32 56.6	4 5.9	9.900681	15 4	7 0
	21	11 0 4.08	0 22.71	10 37 2.5	4 23.1	9.897192	15 0	7 0
	22	10 59 41.37	0 25.78	10 41 25.6	4 40.0	9.893749	14 55	7 1
	23	10 59 15.59	0 28.84	10 46 5.6	4 56.6	9.890357	14 51	7 1
	24	10 58 46.75	−0 31.89	10 51 2.2	+5 12.9	9.887019	14 46	7 2
	25	10 58 14.86	0 34.94	+10 56 15.1	5 29.0	9.883739	14 42	7 2
	26	10 57 39.92	0 37.98	11 1 44.1	5 44.8	9.880521	14 37	7 3
	27	10 57 1.94	0 41.00	11 7 28.9	6 0.1	9.877367	14 33	7 3
	28	10 56 20.94	0 43.98	11 13 29.0	6 14.9	9.874283	14 28	7 4
	29	10 55 36.96	−0 46.92	11 19 43.9	+6 29.3	9.871272	14 24	7 4
	30	10 54 50.04	0 49.83	+11 26 13.2	6 43.2	9.868339	14 19	7 5
	31	10 54 0.21	0 52.73	11 32 56.4	6 56.7	9.865488	14 14	7 5
Febr.	1	10 53 7.48	0 55.59	11 39 53.1	7 9.5	9.862721	14 9	7 6
	2	10 52 11.89	0 58.38	11 47 2.6	7 21.6	9.860043	14 4	7 7
	3	10 51 13.51	−1 1.12	11 54 24.2	+7 33.2	9.857458	13 59	7 8
	4	10 50 12.39	1 3.80	+12 1 57.4	7 44.0	9.854970	13 54	7 8
	5	10 49 8.59	1 6.40	12 9 41.4	7 54.1	9.852584	13 49	7 9
	6	10 48 2.19	1 8.93	12 17 35.5	8 3.5	9.850302	13 44	7 10
	7	10 46 53.26	1 11.38	12 25 39.0	8 11.8	9.848129	13 39	7 11
	8	10 45 41.88		12 33 50.8		9.846069	13 34	7 11

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Oestl. Stunden-Winkel h m	Halber Tag-bogen h m
Febr. 7	10 46 53.26	−1 11.38	+12 25 39.0	+8 11.8	9.848129	13 39	7 11
8	10 45 41.88	1 13.75	12 33 50.8	8 19.4	9.846069	13 34	7 11
9	10 44 28.13	1 15.99	12 42 10.2	8 26.0	9.844126	13 29	7 12
10	10 43 12.14	1 18.12	12 50 36.2	8 31.5	9.842303	13 24	7 13
11	10 41 54.02	−1 20.19	12 59 7.7	+8 36.3	9.840604	13 19	7 14
12	10 40 33.83	1 22.06	+13 7 44.0	8 40.0	9.839031	13 13	7 15
13	10 39 11.77	1 23.80	13 16 24.0	8 42.4	9.837589	13 8	7 15
14	10 37 47.97	1 25.43	13 25 6.4	8 43.7	9.836281	13 3	7 16
15	10 36 22.54	1 26.92	13 33 50.1	8 44.1	9.835108	12 57	7 17
16	10 34 55.62	−1 28.23	13 42 34.2	+8 43.1	9.834074	12 52	7 18
17	10 33 27.39	1 29.38	+13 51 17.3	8 41.1	9.833181	12 47	7 19
18	10 31 58.01	1 30.35	13 59 58.4	8 38.0	9.832430	12 41	7 20
19	10 30 27.66	1 31.16	14 8 36.4	8 33.7	9.831823	12 36	7 21
20	10 28 56.50	1 31.77	14 17 10.1	8 28.2	9.831362	12 30	7 22
21	10 27 24.73	−1 32.20	14 25 38.3	+8 21.7	9.831048	12 25	7 22
22	10 25 52.53	1 32.45	+14 34 0.0	8 14.2	9.830880	12 19	7 23
23	10 24 20.08	1 32.52	14 42 14.2	8 5.5	9.830858	12 14	7 24
24	10 22 47.56	1 32.41	14 50 19.7	7 55.9	9.830982	12 9	7 25
25	10 21 15.15	1 32.10	14 58 15.6	7 45.5	9.831252	12 3	7 26
26	10 19 43.05	−1 31.63	15 6 1.1	+7 34.1	9.831667	11 57	7 27
27	10 18 11.42	1 31.01	+15 13 35.2	7 22.1	9.832223	11 52	7 27
28	10 16 40.41	1 30.17	15 20 57.3	7 9.1	9.832921	11 46	7 28
März 1	10 15 10.24	1 29.21	15 28 6.4	6 55.7	9.833758	11 41	7 29
2	10 13 41.03	1 28.10	15 35 2.1	6 41.4	9.834733	11 36	7 29
3	10 12 12.93	−1 26.81	15 41 43.5	+6 26.6	9.835842	11 30	7 30
4	10 10 46.12	1 25.36	+15 48 10.1	6 11.4	9.837083	11 25	7 31
5	10 9 20.76	1 23.78	15 54 21.5	5 55.7	9.838454	11 19	7 31
6	10 7 56.98	1 22.07	16 0 17.2	5 39.6	9.839951	11 14	7 32
7	10 6 34.91	1 20.24	16 5 56.8	5 23.0	9.841572	11 9	7 33
8	10 5 14.67	−1 18.27	16 11 19.8	+5 5.9	9.843314	11 3	7 33
9	10 3 56.40	1 16.16	+16 16 25.7	4 48.7	9.845171	10 58	7 34
10	10 2 40.24	1 13.95	16 21 14.4	4 31.1	9.847142	10 53	7 34
11	10 1 26.29	1 11.64	16 25 45.5	4 13.5	9.849224	10 48	7 35
12	10 0 14.65	1 9.22	16 29 59.0	3 55.7	9.851412	10 43	7 35
13	9 59 5.43	−1 6.71	16 33 54.7	+3 37.6	9.853702	10 38	7 35
14	9 57 58.72	1 4.12	+16 37 32.3	3 19.5	9.856091	10 32	7 36
15	9 56 54.60	1 1.44	16 40 51.8	3 1.3	9.858574	10 27	7 36
16	9 55 53.16	0 58.67	16 43 53.1	2 43.1	9.861147	10 23	7 36
17	9 54 54.49	0 55.84	16 46 36.2	2 24.9	9.863808	10 18	7 37
18	9 53 58.65		16 49 1.1		9.866551	10 13	7 37

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	9 54 54.49		+16 46 36.2		9.863808	10 18	7 37
		−0 55.84		+2 24.9			
18	9 53 58.65		16 49 1.1		9.866551	10 13	7 37
		0 52.95		2 6.8			
19	9 53 5.70		16 51 7.9		9.869372	10 8	7 37
		0 50.02		1 48.8			
20	9 52 15.68		16 52 56.7		9.872268	10 3	7 37
		0 47.02		1 30.8			
21	9 51 28.66		16 54 27.5		9.875235	9 58	7 38
		−0 43.99		+1 13.0			
22	9 50 44.67		+16 55 40.5		9.878267	9 54	7 38
		0 40.92		0 55.4			
23	9 50 3.75		16 56 35.9		9.881360	9 49	7 38
		0 37.84		0 38.0			
24	9 49 25.91		16 57 13.9		9.884511	9 45	7 38
		0 34.74		0 20.8			
25	9 48 51.17		16 57 34.7		9.887716	9 40	7 38
		0 31.63		+0 3.8			
26	9 48 19.54		16 57 38.5		9.890971	9 35	7 38
		−0 28.52		−0 12.9			
27	9 47 51.02		+16 57 25.6		9.894271	9 31	7 38
		0 25.43		0 29.1			
28	9 47 25.59		16 56 56.5		9.897613	9 27	7 38
		0 22.35		0 45.2			
29	9 47 3.24		16 56 11.3		9.900993	9 23	7 38
		0 19.29		1 1.1			
30	9 46 43.95		16 55 10.2		9.904408	9 18	7 38
		0 16.24		1 16.4			
31	9 46 27.71		16 53 53.8		9.907856	9 14	7 38
		−0 13.22		[illegible] 31.7			
April 1	9 46 14.49		+16 52 22.1		9.911333	9 10	7 37
		0 10.24		1 46.6			
2	9 46 4.25		16 50 35.5		9.914835	9 6	7 37
		0 7.30		2 1.2			
3	9 45 56.95		16 48 34.3		9.918360	9 2	7 37
		0 4.35		2 15.5			
4	9 45 52.60		16 46 18.8		9.921906	8 58	7 37
		−0 1.46		2 29.6			
5	9 45 51.14		16 43 49.2		9.925471	8 54	7 36
		+0 1.39		−2 43.4			
6	9 45 52.53		+16 41 5.8		9.929051	8 50	7 36
		0 4.20		2 57.0			
7	9 45 56.73		16 38 8.8		9.932644	8 46	7 36
		0 6.97		3 10.2			
8	9 46 3.70		16 34 58.6		9.936248	8 42	7 36
		0 9.73		3 23.4			
9	9 46 13.43		16 31 35.2		9.939861	8 38	7 35
		0 12.42		3 36.4			
10	9 46 25.85		16 27 58.8		9.943481	8 35	7 35
		+0 15.05		−3 49.0			
11	9 46 40.90		+16 24 9.8		9.947106	8 31	7 34
		0 17.68		4 1.2			
12	9 46 58.58		16 20 8.6		9.950735	8 27	7 34
		0 20.26		4 13.3			
13	9 47 18.84		16 15 55.3		9.954366	8 24	7 34
		0 22.79		4 25.5			
14	9 47 41.63		16 11 29.8		9.957996	8 20	7 33
		0 25.28		4 37.3			
15	9 48 6.91		16 6 52.5		9.961625	8 17	7 33
		+0 27.74		−4 49.1			
16	9 48 34.65		+16 2 3.4		9.965251	8 13	7 32
		0 30.15		5 0.6			
17	9 49 4.80		15 57 2.8		9.968873	8 10	7 32
		0 32.52		5 11.9			
18	9 49 37.32		15 51 50.9		9.972488	8 6	7 31
		0 34.85		5 23.1			
19	9 50 12.17		15 46 27.8		9.976095	8 3	7 31
		0 37.12		5 34.0			
20	9 50 49.29		15 40 53.8		9.979693	7 59	7 30
		+0 39.35		−5 44.7			
21	9 51 28.64		+15 35 9.1		9.983281	7 56	7 29
		0 41.57		5 55.2			
22	9 52 10.21		15 29 13.9		9.986856	7 53	7 29
		0 43.72		6 5.6			
23	9 52 53.93		15 23 8.3		9.990419	7 50	7 28
		0 45.80		6 15.9			
24	9 53 39.73		15 16 52.4		9.993968	7 47	7 28
		0 47.84		6 25.8			
25	9 54 27.57		15 10 26.6		9.997501	7 43	7 27

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
April 24	9 53 39.73	+0 47.84	+15 16 52.4	− 6 25.8	9.993968	7 47	7 28
25	9 54 27.57	0 49.83	15 10 26.6	6 35.6	9.997501	7 43	7 27
26	9 55 17.40	0 51.76	15 3 51.0	6 45.2	0.001019	7 40	7 26
27	9 56 9.16	0 53.65	14 57 5.8	6 54.8	0.004520	7 37	7 26
28	9 57 2.81	+0 55.49	14 50 11.0	− 7 4.1	0.008002	7 34	7 25
29	9 57 58.30	0 57.30	+14 43 6.9	7 13.2	0.011467	7 31	7 24
30	9 58 55.60	0 59.05	14 35 53.7	7 22.3	0.014913	7 28	7 24
Mai 1	9 59 54.65	1 0.78	14 28 31.4	7 31.2	0.018340	7 25	7 23
2	10 0 55.43	1 2.45	14 21 0.2	7 40.1	0.021748	7 22	7 22
3	10 1 57.88	+1 4.08	14 13 20.1	− 7 48.7	0.025136	7 19	7 21
4	10 3 1.96	1 5.66	+14 5 31.4	7 57.2	0.028503	7 16	7 20
5	10 4 7.62	1 7.21	13 57 34.2	8 5.7	0.031849	7 14	7 20
6	10 5 14.83	1 8.72	13 49 28.5	8 14.0	0.035174	7 11	7 19
7	10 6 23.55	1 10.20	13 41 14.5	8 22.3	0.038478	7 8	7 18
8	10 7 33.75	+1 11.65	13 32 52.2	− 8 30.4	0.041761	7 5	7 17
9	10 8 45.40	1 13.07	+13 24 21.8	8 38.5	0.045022	7 2	7 16
10	10 9 58.47	1 14.44	13 15 43.3	8 46.5	0.048260	7 0	7 15
11	10 11 12.91	1 15.80	13 6 56.8	8 54.3	0.051477	6 57	7 15
12	10 12 28.71	1 17.12	12 58 2.5	9 2.3	0.054673	6 54	7 14
13	10 13 45.83	+1 18.42	12 49 0.2	− 9 10.1	0.057846	6 52	7 13
14	10 15 4.25	1 19.69	+12 39 50.1	9 17.8	0.060995	6 49	7 12
15	10 16 23.94	1 20.95	12 30 32.3	9 25.4	0.064122	6 46	7 11
16	10 17 44.89	1 22.16	12 21 6.9	9 33.0	0.067227	6 44	7 10
17	10 19 7.05	1 23.35	12 11 33.9	9 40.4	0.070308	6 41	7 9
18	10 20 30.40	+1 24.52	12 1 53.5	− 9 47.7	0.073365	6 39	7 8
19	10 21 54.92	1 25.65	+11 52 5.8	9 55.0	0.076398	6 36	7 7
20	10 23 20.57	1 26.77	11 42 10.8	10 2.2	0.079407	6 34	7 6
21	10 24 47.34	1 27.85	11 32 8.6	10 9.4	0.082393	6 31	7 5
22	10 26 15.19	1 28.90	11 21 59.2	10 16.3	0.085355	6 29	7 4
23	10 27 44.09	+1 29.93	11 11 42.9	−10 23.1	0.088292	6 26	7 4
24	10 29 14.02	1 30.93	+11 1 19.8	10 30.0	0.091204	6 24	7 3
25	10 30 44.95	1 31.90	10 50 49.8	10 36.6	0.094092	6 21	7 2
26	10 32 16.85	1 32.85	10 40 13.2	10 43.1	0.096955	6 19	7 1
27	10 33 49.70	1 33.77	10 29 30.1	10 49.6	0.099795	6 17	7 0
28	10 35 23.47	+1 34.67	10 18 40.5	−10 56.1	0.102610	6 14	6 59
29	10 36 58.14	1 35.56	+10 7 44.4	11 2.3	0.105401	6 12	6 58
30	10 38 33.70	1 36.41	9 56 42.1	11 8.6	0.108168	6 9	6 56
31	10 40 10.11	1 37.25	9 45 33.5	11 14.7	0.110912	6 7	6 55
Juni 1	10 41 47.36	1 38.07	9 34 18.8	11 20.9	0.113631	6 5	6 54
2	10 43 25.43		9 22 57.9		0.116327	6 3	6 53

Wahrer geocentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Juni	1	10 41 47.36	+1 38.07	+9 34 18.8	−11 20.9	0.113631	6 5	6 54
	2	10 43 25.43	1 38.88	9 22 57.9	11 26.8	0.116327	6 3	6 53
	3	10 45 4.31	1 39.66	9 11 31.1	11 32.7	0.119000	6 1	6 52
	4	10 46 43.97	1 40.43	8 59 58.4	11 38.6	0.121650	5 58	6 51
	5	10 48 24.40	+1 41.19	8 48 19.8	−11 44.4	0.124276	5 56	6 50
	6	10 50 5.59	1 41.94	+8 36 35.4	11 50.2	0.126880	5 54	6 49
	7	10 51 47.53	1 42.67	8 24 45.2	11 55.8	0.129462	5 51	6 48
	8	10 53 30.20	1 43.38	8 12 49.4	12 1.5	0.132020	5 49	6 47
	9	10 55 13.58	1 44.09	8 0 47.9	12 7.0	0.134556	5 47	6 46
	10	10 56 57.67	+1 44.80	7 48 40.9	−12 12.6	0.137070	5 45	6 45
	11	10 58 42.47	1 45.49	+7 36 28.3	12 18.0	0.139562	5 42	6 44
	12	11 0 27.96	1 46.18	7 24 10.3	12 23.4	0.142033	5 40	6 43
	13	11 2 14.14	1 46.85	7 11 46.9	12 28.7	0.144481	5 38	6 42
	14	11 4 0.99	1 47.51	6 59 18.2	12 34.0	0.146908	5 36	6 40
	15	11 5 48.50	+1 48.16	6 46 44.2	−12 39.1	0.149313	5 34	6 39
	16	11 7 36.66	1 48.81	+6 34 5.1	12 44.2	0.151696	5 32	6 38
	17	11 9 25.47	1 49.45	6 21 20.9	12 49.2	0.154057	5 29	6 37
	18	11 11 14.92	1 50.07	6 8 31.7	12 54.1	0.156396	5 27	6 36
	19	11 13 4.99	1 50.68	5 55 37.6	12 59.0	0.158714	5 25	6 35
	20	11 14 55.67	+1 51.27	5 42 38.6	−13 3.6	0.161010	5 23	6 34
	21	11 16 46.94	1 51.86	+5 29 35.0	13 8.2	0.163284	5 21	6 32
	22	11 18 38.80	1 52.44	5 16 26.8	13 12.7	0.165536	5 19	6 31
	23	11 20 31.24	1 53.01	5 3 14.1	13 17.2	0.167767	5 17	6 30
	24	11 22 24.25	1 53.56	4 49 56.9	13 21.5	0.169976	5 15	6 29
	25	11 24 17.81	+1 54.11	4 36 35.4	−13 25.7	0.172165	5 13	6 28
	26	11 26 11.92	1 54.65	+4 23 9.7	13 29.8	0.174334	5 11	6 26
	27	11 28 6.57	1 55.18	4 9 39.9	13 33.9	0.176482	5 9	6 25
	28	11 30 1.75	1 55.71	3 56 6.0	13 37.9	0.178609	5 7	6 24
	29	11 31 57.46	1 56.23	3 42 28.1	13 41.8	0.180717	5 5	6 23
	30	11 33 53.69	+1 56.75	3 28 46.3	−13 45.5	0.182804	5 3	6 22
Juli	1	11 35 50.44	1 57.26	+3 15 0.8	13 49.3	0.184871	5 1	6 21
	2	11 37 47.70	1 57.77	3 1 11.5	13 53.0	0.186919	4 59	6 19
	3	11 39 45.47	1 58.27	2 47 18.5	13 56.6	0.188948	4 57	6 18
	4	11 41 43.74	1 58.77	2 33 21.9	14 0.0	0.190957	4 55	6 17
	5	11 43 42.51	+1 59.27	2 19 21.9	−14 3.5	0.192948	4 53	6 16
	6	11 45 41.78	1 59.77	+2 5 18.4	14 6.8	0.194920	4 51	6 15
	7	11 47 41.55	2 0.27	1 51 11.6	14 10.1	0.196874	4 49	6 13
	8	11 49 41.82	2 0.77	1 37 1.5	14 13.3	0.198810	4 47	6 12
	9	11 51 42.59	2 1.27	1 22 48.2	14 16.4	0.200728	4 45	6 11
	10	11 53 43.86		1 8 31.8		0.202628	4 43	6 10

Wahrer geocentrischer Ort.

0^h Mittl. Zeit		AR. (^{h} ^{m} ^{s})	Diff. (^{m} ^{s})	Decl. (° ′ ″)	Diff. (′ ″)	Log. Δ	Oestl. Stunden-Winkel (^{h} ^{m})	Halber Tag-bogen (^{h} ^{m})
Juli	9	11 51 42.59	+2 1.27	+1 22 48.2	−14 16.4	0.200728	4 45	6 11
	10	11 53 43.86	2 1.77	1 8 31.8	14 19.5	0.202628	4 43	6 10
	11	11 55 45.63	2 2.28	0 54 12.3	14 22.5	0.204509	4 41	6 8
	12	11 57 47.91	2 2.78	0 39 49.8	14 25.3	0.206372	4 39	6 7
	13	11 59 50.69	+2 3.28	0 25 24.5	−14 28.2	0.208218	4 37	6 6
	14	12 1 53.97	2 3.78	+0 10 56.3	14 30.9	0.210046	4 35	6 5
	15	12 3 57.75	2 4.28	−0 3 34.6	14 33.5	0.211857	4 34	6 3
	16	12 6 2.03	2 4.77	0 18 8.1	14 35.9	0.213650	4 32	6 2
	17	12 8 6.80	2 5.27	0 32 44.0	14 38.3	0.215426	4 30	6 1
	18	12 10 12.07	+2 5.76	0 47 22.3	−14 40.7	0.217184	4 28	6 0
	19	12 12 17.83	2 6.26	−1 2 3.0	14 42.8	0.218924	4 26	5 58
	20	12 14 24.09	2 6.74	1 16 45.8	14 44.8	0.220647	4 24	5 57
	21	12 16 30.83	2 7.22	1 31 30.6	14 46.8	0.222353	4 22	5 56
	22	12 18 38.05	2 7.71	1 46 17.4	14 48.6	0.224042	4 21	5 54
	23	12 20 45.76	+2 8.19	2 1 6.0	−14 50.3	0.225714	4 19	5 53
	24	12 22 53.95	2 8.68	−2 15 56.3	14 52.0	0.227369	4 17	5 52
	25	12 25 2.63	2 9.15	2 30 48.3	14 53.5	0.229007	4 15	5 51
	26	12 27 11.78	2 9.64	2 45 41.8	14 54.8	0.230629	4 13	5 49
	27	12 29 21.42	2 10.12	3 0 36.6	14 56.2	0.232236	4 12	5 48
	28	12 31 31.54	+2 10.60	3 15 32.8	−14 57.4	0.233826	4 10	5 47
	29	12 33 42.14	2 11.09	−3 30 30.2	14 58.4	0.235400	4 8	5 45
	30	12 35 53.23	2 11.58	3 45 28.6	14 59.4	0.236959	4 6	5 44
	31	12 38 4.81	2 12.06	4 0 28.0	15 0.3	0.238503	4 5	5 43
Aug.	1	12 40 16.87	2 12.55	4 15 28.3	15 1.0	0.240031	4 3	5 41
	2	12 42 29.42	+2 13.05	4 30 29.3	−15 1.7	0.241544	4 1	5 40
	3	12 44 42.47	2 13.56	−4 45 31.0	15 2.3	0.243042	3 59	5 39
	4	12 46 56.03	2 14.06	5 0 33.3	15 2.8	0.244527	3 58	5 37
	5	12 49 10.09	2 14.58	5 15 36.1	15 3.2	0.245997	3 56	5 36
	6	12 51 24.67	2 15.09	5 30 39.3	15 3.5	0.247452	3 54	5 35
	7	12 53 39.76	+2 15.61	5 45 42.8	−15 3.6	0.248893	3 53	5 33
	8	12 55 55.37	2 16.15	−6 0 46.4	15 3.7	0.250320	3 51	5 32
	9	12 58 11.52	2 16.68	6 15 50.1	15 3.6	0.251733	3 49	5 31
	10	13 0 28.20	2 17.22	6 30 53.7	15 3.5	0.253132	3 47	5 29
	11	13 2 45.42	2 17.76	6 45 57.2	15 3.2	0.254518	3 46	5 28
	12	13 5 3.18	+2 18.31	7 1 0.4	−15 2.8	0.255889	3 44	5 27
	13	13 7 21.49	2 18.85	−7 16 3.2	15 2.3	0.257246	3 43	5 25
	14	13 9 40.34	2 19.41	7 31 5.5	15 1.6	0.258589	3 41	5 24
	15	13 11 59.75	2 19.96	7 46 7.1	15 0.8	0.259919	3 39	5 23
	16	13 14 19.71	2 20.51	8 1 7.9	14 59.8	0.261235	3 38	5 21
	17	13 16 40.22		8 16 7.7		0.262537	3 36	5 20

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	13 14 19.71	+2 20.51	− 8 1 7.9	−14 59.8	0.261235	3 38	5 21
17	13 16 40.22	2 21.07	8 16 7.7	14 58.7	0.262537	3 36	5 20
18	13 19 1.29	2 21.62	8 31 6.4	14 57.5	0.263826	3 35	5 19
19	13 21 22.91	2 22.19	8 46 3.9	14 56.2	0.265101	3 33	5 17
20	13 23 45.10	+2 22.76	9 1 0.1	−14 54.7	0.266363	3 31	5 16
21	13 26 7.86	2 23.32	− 9 15 54.8	14 53.0	0.267612	3 30	5 15
22	13 28 31.18	2 23.88	9 30 47.8	14 51.2	0.268848	3 28	5 13
23	13 30 55.06	2 24.45	9 45 39.0	14 49.3	0.270071	3 27	5 12
24	13 33 19.51	2 25.03	10 0 28.3	14 47.2	0.271281	3 25	5 11
25	13 35 44.54	+2 25.61	10 15 15.5	−14 45.1	0.272479	3 24	5 9
26	13 38 10.15	2 26.19	−10 30 0.6	14 42.7	0.273664	3 22	5 8
27	13 40 36.34	2 26.78	10 44 43.3	14 40.2	0.274837	3 21	5 7
28	13 43 3.12	2 27.36	10 59 23.5	14 37.6	0.275998	3 19	5 5
29	13 45 30.48	2 27.96	11 14 1.1	14 34.9	0.277147	3 18	5 4
30	13 47 58.44	+2 28.55	11 28 36.0	−14 31.9	0.278284	3 16	5 2
31	13 50 26.99	2 29.16	−11 43 7.9	14 28.9	0.279410	3 15	5 1
Sept. 1	13 52 56.15	2 29.78	11 57 36.8	14 25.8	0.280525	3 13	5 0
2	13 55 25.93	2 30.40	12 12 2.6	14 22.5	0.281628	3 12	4 58
3	13 57 56.33	2 31.03	12 26 25.1	14 19.1	0.282720	3 10	4 57
4	14 0 27.36	+2 31.66	12 40 44.2	−14 15.5	0.283801	3 9	4 56
5	14 2 59.02	2 32.31	−12 54 59.7	14 11.6	0.284872	3 8	4 54
6	14 5 31.33	2 32.96	13 9 11.3	14 7.6	0.285932	3 6	4 53
7	14 8 4.29	2 33.61	13 23 18.9	14 3.6	0.286981	3 5	4 52
8	14 10 37.90	2 34.26	13 37 22.5	13 59.5	0.288018	3 3	4 50
9	14 13 12.16	+2 34.93	13 51 22.0	−13 55.2	0.289045	3 2	4 49
10	14 15 47.09	2 35.59	−14 5 17.2	13 50.6	0.290062	3 1	4 48
11	14 18 22.68	2 36.25	14 19 7.8	13 46.0	0.291068	2 59	4 46
12	14 20 58.93	2 36.93	14 32 53.8	13 41.1	0.292063	2 58	4 45
13	14 23 35.86	2 37.61	14 46 34.9	13 36.1	0.293047	2 57	4 44
14	14 26 13.47	+2 38.29	15 0 11.0	−13 30.9	0.294021	2 55	4 42
15	14 28 51.76	2 38.96	−15 13 41.9	13 25.5	0.294985	2 54	4 41
16	14 31 30.72	2 39.63	15 27 7.4	13 19.9	0.295938	2 53	4 40
17	14 34 10.35	2 40.31	15 40 27.3	13 14.2	0.296881	2 51	4 38
18	14 36 50.66	2 41.00	15 53 41.5	13 8.3	0.297814	2 50	4 37
19	14 39 31.66	+2 41.68	16 6 49.8	−13 2.3	0.298737	2 49	4 36
20	14 42 13.34	2 42.36	−16 19 52.1	12 56.0	0.299649	2 48	4 34
21	14 44 55.70	2 43.05	16 32 48.1	12 49.6	0.300552	2 46	4 33
22	14 47 38.75	2 43.73	16 45 37.7	12 42.9	0.301445	2 45	4 32
23	14 50 22.48	2 44.43	16 58 20.6	12 36.1	0.302328	2 44	4 30
24	14 53 6.91		17 10 56.7		0.303202	2 43	4 29

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Sept. 23	14 50 22.48	+2 44.43	−16 58 20.6	−12 36.1	0.302328	2 44	4 30
24	14 53 6.91	2 45.11	17 10 56.7	12 29.3	0.303202	2 43	4 29
25	14 55 52.02	2 45.79	17 23 26.0	12 22.2	0.304066	2 42	4 28
26	14 58 37.81	2 46.49	17 35 48.2	12 14.8	0.304921	2 40	4 26
27	15 1 24.30	+2 47.19	17 48 3.0	−12 7.2	0.305768	2 39	4 25
28	15 4 11.49	2 47.89	−18 0 10.2	11 59.6	0.306606	2 38	4 24
29	15 6 59.38	2 48.60	18 12 9.8	11 51.8	0.307435	2 37	4 23
30	15 9 47.98	2 49.30	18 24 1.6	11 43.8	0.308256	2 36	4 21
Oct. 1	15 12 37.28	2 50.00	18 35 45.4	11 35.6	0.309068	2 35	4 20
2	15 15 27.28	+2 50.72	18 47 21.0	−11 27.3	0.309872	2 34	4 19
3	15 18 18.00	2 51.43	−18 58 48.3	11 18.7	0.310668	2 33	4 18
4	15 21 9.43	2 52.16	19 10 7.0	11 10.0	0.311456	2 31	4 16
5	15 24 1.59	2 52.87	19 21 17.0	11 1.1	0.312235	2 30	4 15
6	15 26 54.46	2 53.59	19 32 18.1	10 52.0	0.313006	2 29	4 14
7	15 29 48.05	+2 54.31	19 43 10.1	−10 42.7	0.313770	2 28	4 13
8	15 32 42.36	2 55.02	−19 53 52.8	10 33.3	0.314525	2 27	4 12
9	15 35 37.38	2 55.74	20 4 26.1	10 23.7	0.315273	2 26	4 11
10	15 38 33.12	2 56.45	20 14 49.8	10 13.8	0.316012	2 25	4 9
11	15 41 29.57	2 57.15	20 25 3.6	10 3.8	0.316744	2 24	4 8
12	15 44 26.72	+2 57.86	20 35 7.4	− 9 53.6	0.317467	2 23	4 7
13	15 47 24.58	2 58.56	−20 45 1.0	9 43.2	0.318183	2 22	4 6
14	15 50 23.14	2 59.26	20 54 44.2	9 32.7	0.318890	2 21	4 5
15	15 53 22.40	2 59.95	21 4 16.9	9 21.9	0.319590	2 20	4 4
16	15 56 22.35	3 0.63	21 13 38.8	9 10.9	0.320283	2 19	4 3
17	15 59 22.98	+3 1.30	21 22 49.7	− 8 59.9	0.320969	2 18	4 2
18	16 2 24.28	3 1.98	−21 31 49.6	8 48.6	0.321646	2 17	4 1
19	16 5 26.26	3 2.64	21 40 38.2	8 37.0	0.322315	2 17	4 0
20	16 8 28.90	3 3.30	21 49 15.2	8 25.3	0.322978	2 16	3 59
21	16 11 32.20	3 3.96	21 57 40.5	8 13.6	0.323633	2 15	3 58
22	16 14 36.16	+3 4.60	22 5 54.1	− 8 1.5	0.324282	2 14	3 57
23	16 17 40.76	3 5.23	−22 13 55.6	7 49.3	0.324924	2 13	3 56
24	16 20 45.99	3 5.86	22 21 44.9	7 36.9	0.325559	2 12	3 55
25	16 23 51.85	3 6.49	22 29 21.8	7 24.4	0.326187	2 11	3 54
26	16 26 58.34	3 7.10	22 36 46.2	7 11.7	0.326808	2 10	3 53
27	16 30 5.44	+3 7.71	22 43 57.9	− 6 58.9	0.327424	2 10	3 52
28	16 33 13.15	3 8.31	−22 50 56.8	6 45.8	0.328034	2 9	3 52
29	16 36 21.46	3 8.91	22 57 42.6	6 32.6	0.328637	2 8	3 51
30	16 39 30.37	3 9.50	23 4 15.2	6 19.2	0.329235	2 7	3 50
31	16 42 39.87	3 10.08	23 10 34.4	6 5.8	0.329826	2 6	3 49
Nov. 1	16 45 49.95		23 16 40.2		0.330412	2 6	3 48

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Oct. 31	16 42 39.87	+3 10.08	−23 10 34.4	−6 5.8	0.329826	2 6	3 49
Nov. 1	16 45 49.95	3 10.67	23 16 40.2	5 52.2	0.330412	2 6	3 48
2	16 49 0.62	3 11.23	23 22 32.4	5 38.2	0.330992	2 5	3 48
3	16 52 11.85	3 11.79	23 28 10.6	5 24.1	0.331566	2 4	3 47
4	16 55 23.64	+3 12.34	23 33 34.7	−5 10.1	0.332135	2 3	3 46
5	16 58 35.98	3 12.87	−23 38 44.8	4 56.0	0.332698	2 3	3 46
6	17 1 48.85	3 13.39	23 43 40.8	4 41.7	0.333255	2 2	3 45
7	17 5 2.24	3 13.91	23 48 22.5	4 27.0	0.333806	2 1	3 44
8	17 8 16.15	3 14.41	23 52 49.5	4 12.3	0.334352	2 1	3 44
9	17 11 30.56	+3 14.89	23 57 1.8	−3 57.6	0.334892	2 0	3 43
10	17 14 45.45	3 15.36	−24 0 59.4	3 42.6	0.335427	1 59	3 43
11	17 18 0.81	3 15.81	24 4 42.0	3 27.6	0.335956	1 58	3 42
12	17 21 16.62	3 16.24	24 8 9.6	3 12.4	0.336480	1 58	3 42
13	17 24 32.86	3 16.67	24 11 22.0	2 57.2	0.336998	1 57	3 42
14	17 27 49.53	+3 17.08	24 14 19.2	−2 41.8	0.337511	1 56	3 41
15	17 31 6.61	3 17.47	−24 17 1.0	2 26.3	0.338018	1 56	3 41
16	17 34 24.08	3 17.84	24 19 27.3	2 10.7	0.338521	1 55	3 41
17	17 37 41.92	3 18.19	24 21 38.0	1 55.0	0.339018	1 54	3 40
18	17 41 0.11	3 18.52	24 23 33.0	1 39.3	0.339510	1 54	3 40
19	17 44 18.63	+3 18.85	24 25 12.3	−1 23.4	0.339997	1 53	3 40
20	17 47 37.48	3 19.15	−24 26 35.7	1 7.5	0.340480	1 53	3 40
21	17 50 56.63	3 19.44	24 27 43.2	0 51.5	0.340958	1 52	3 39
22	17 54 16.07	3 19.71	24 28 34.7	0 35.4	0.341430	1 51	3 39
23	17 57 35.78	3 19.96	24 29 10.1	0 19.2	0.341898	1 51	3 39
24	18 0 55.74	+3 20.19	24 29 29.3	−0 3.0	0.342361	1 50	3 39
25	18 4 15.93	3 20.42	−24 29 32.3	+0 13.2	0.342821	1 50	3 39
26	18 7 36.35	3 20.62	24 29 19.1	0 29.5	0.343278	1 49	3 39
27	18 10 56.97	3 20.82	24 28 49.6	0 45.9	0.343730	1 48	3 39
28	18 14 17.79	3 21.00	24 28 3.7	1 2.4	0.344178	1 48	3 39
29	18 17 38.79	+3 21.16	24 27 1.3	+1 18.8	0.344622	1 47	3 40
30	18 20 59.95	3 21.31	−24 25 42.5	1 35.3	0.345062	1 47	3 40
Dec. 1	18 24 21.26	3 21.45	24 24 7.2	1 51.8	0.345499	1 46	3 40
2	18 27 42.71	3 21.57	24 22 15.4	2 8.3	0.345932	1 45	3 40
3	18 31 4.28	3 21.66	24 20 7.1	2 24.8	0.346361	1 45	3 40
4	18 34 25.94	+3 21.74	24 17 42.3	+2 41.3	0.346787	1 44	3 41
5	18 37 47.68	3 21.81	−24 15 1.0	2 57.9	0.347209	1 44	3 41
6	18 41 9.49	3 21.85	24 12 3.1	3 14.4	0.347628	1 43	3 41
7	18 44 31.34	3 21.88	24 8 48.7	3 31.0	0.348043	1 42	3 42
8	18 47 53.22	3 21.89	24 5 17.7	3 47.4	0.348453	1 42	3 42
9	18 51 15.11		24 1 30.3		0.348860	1 41	3 43

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dec. 8	18 47 53.22	+3 21.89	—24 5 17.7	+ 3 47.4	0.348453	1 42	3 42
9	18 51 15.11	3 21.89	24 1 30.3	4 3.9	0.348860	1 41	3 43
10	18 54 37.00	3 21.86	23 57 26.4	4 20.4	0.349264	1 41	3 43
11	18 57 58.86	3 21.82	23 53 6.0	4 36.7	0.349665	1 40	3 44
12	19 1 20.68	+3 21.75	23 48 29.3	+ 4 53.1	0.350062	1 40	3 44
13	19 4 42.43	3 21.68	—23 43 36.2	5 9.3	0.350455	1 39	3 45
14	19 8 4.11	3 21.58	23 38 26.9	5 25.6	0.350844	1 38	3 46
15	19 11 25.69	3 21.46	23 33 1.3	5 41.8	0.351230	1 38	3 46
16	19 14 47.15	3 21.32	23 27 19.5	5 57.9	0.351613	1 37	3 47
17	19 18 8.47	+3 21.18	23 21 21.6	+ 6 14.0	0.351992	1 37	3 48
18	19 21 29.65	3 21.03	—23 15 7.6	6 29.9	0.352368	1 36	3 49
19	19 24 50.68	3 20.84	23 8 37.7	6 45.8	0.352742	1 35	3 49
20	19 28 11.52	3 20.64	23 1 51.9	7 1.6	0.353112	1 35	3 50
21	19 31 32.16	3 20.42	22 54 50.3	7 17.3	0.353478	1 34	3 51
22	19 34 52.58	+3 20.20	22 47 33.0	+ 7 32.9	0.353842	1 33	3 52
23	19 38 12.78	3 19.97	—22 40 0.1	7 48.5	0.354204	1 33	3 53
24	19 41 32.75	3 19.72	22 32 11.6	8 3.9	0.354565	1 32	3 54
25	19 44 52.47	3 19.46	22 24 7.7	8 19.2	0.354923	1 32	3 55
26	19 48 11.93	3 19.20	22 15 48.5	8 34.5	0.355278	1 31	3 56
27	19 51 31.13	+3 18.92	22 7 14.0	+ 8 49.6	0.355630	1 30	3 57
28	19 54 50.05	3 18.63	—21 58 24.4	9 4.5	0.355980	1 30	3 58
29	19 58 8.68	3 18.33	21 49 19.9	9 19.4	0.356328	1 29	3 59
30	20 1 27.01	3 18.03	21 40 0.5	9 34.2	0.356674	1 29	4 0
31	20 4 45.04	3 17.72	21 30 26.3	9 48.8	0.357017	1 28	4 1
32	20 8 2.76	+3 17.39	21 20 37.5	+10 3.2	0.357358	1 27	4 2
33	20 11 20.15		—21 10 34.3		0.357697	1 27	4 3

Wahrer geocentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Jan. 1	17 42 54.69	+1 56.94	—23 5 10.1	—0 54.6	0.793866	23 1	3 50
3	17 44 51.63	1 56.52	23 6 4.7	0 48.9	0.793231	22 55	3 50
5	17 46 48.15	1 56.05	23 6 53.6	0 43.2	0.792537	22 49	3 50
7	17 48 44.20	1 55.54	23 7 36.8	0 37.6	0.791783	22 43	3 50
9	17 50 39.74	+1 54.98	23 8 14.4	—0 32.0	0.790970	22 37	3 49
11	17 52 34.72	1 54.37	—23 8 46.4	0 26.6	0.790097	22 32	3 49
13	17 54 29.09	1 53.70	23 9 13.0	0 21.2	0.789165	22 26	3 49
15	17 56 22.79	1 52.97	23 9 34.2	0 15.9	0.788175	22 20	3 49
17	17 58 15.76	1 52.19	23 9 50.1	0 10.7	0.787126	22 14	3 49
19	18 0 7.95	+1 51.35	23 10 0.8	—0 5.8	0.786018	22 8	3 49
21	18 1 59.30	1 50.44	—23 10 6.6	—0 0.8	0.784851	22 1	3 49
23	18 3 49.74	1 49.48	23 10 7.4	+0 4.0	0.783627	21 55	3 49
25	18 5 39.22	1 48.47	23 10 3.4	0 8.7	0.782345	21 49	3 49
27	18 7 27.69	1 47.40	23 9 54.7	0 13.1	0.781007	21 43	3 49
29	18 9 15.09	+1 46.28	23 9 41.6	+0 17.5	0.779612	21 37	3 49
31	18 11 1.37	1 45.11	—23 9 24.1	0 21.7	0.778161	21 31	3 49
Febr. 2	18 12 46.48	1 43.90	23 9 2.4	0 25.8	0.776655	21 25	3 49
4	18 14 30.38	1 42.64	23 8 36.6	0 29.6	0.775095	21 19	3 49
6	18 16 13.02	1 41.33	23 8 7.0	0 33.3	0.773480	21 13	3 49
8	18 17 54.35	+1 39.96	23 7 33.7	+0 36.9	0.771812	21 7	3 50
10	18 19 34.31	1 38.52	—23 6 56.8	0 40.1	0.770090	21 0	3 50
12	18 21 12.83	1 37.04	23 6 16.7	0 43.2	0.768316	20 54	3 50
14	18 22 49.87	1 35.48	23 5 33.5	0 46.0	0.766489	20 47	3 50
16	18 24 25.35	1 33.87	23 4 47.5	0 48.6	0.764611	20 41	3 50
18	18 25 59.22	+1 32.20	23 3 58.9	+0 51.1	0.762681	20 35	3 50
20	18 27 31.42	1 30.45	—23 3 7.8	0 53.2	0.760702	20 29	3 50
22	18 29 1.87	1 28.66	23 2 14.6	0 55.2	0.758674	20 22	3 50
24	18 30 30.53	1 26.81	23 1 19.4	0 56.9	0.756598	20 16	3 50
26	18 31 57.34	1 24.90	23 0 22.5	0 58.3	0.754476	20 10	3 50
28	18 33 22.24	+1 22.95	22 59 24.2	+0 59.5	0.752308	20 3	3 50
März 2	18 34 45.19	1 20.96	—22 58 24.7	1 0.6	0.740097	19 57	3 51
4	18 36 6.15	1 18.91	22 57 24.1	1 1.4	0.747842	19 50	3 51
6	18 37 25.06	1 16.80	22 56 22.7	1 1.9	0.745545	19 44	3 51
8	18 38 41.86	1 14.63	22 55 20.8	1 2.1	0.743207	19 37	3 51
10	18 39 56.49	+1 12.41	22 54 18.7	+1 2.1	0.740829	19 30	3 51
12	18 41 8.90	1 10.13	—22 53 16.6	1 1.8	0.738412	19 24	3 51
14	18 42 19.03	1 7.79	22 52 14.8	1 1.2	0.735958	19 17	3 51
16	18 43 26.82	1 5.37	22 51 13.6	1 0.4	0.733469	19 10	3 51
18	18 44 32.19	1 2.90	22 50 13.2	0 59.3	0.730946	19 3	3 52
20	18 45 35.09		22 49 13.9		0.728390	18 57	3 52

Wahrer geocentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 18	18 44 32.19	+1 2.90	−22 50 13.2	+0 59.3	0.730946	19 3	3 52
20	18 45 35.09	1 0.37	22 49 13.9	0 58.0	0.728390	18 57	3 52
22	18 46 35.46	0 57.78	22 48 15.9	0 56.4	0.725804	18 50	3 52
24	18 47 33.24	0 55.14	22 47 19.5	0 54.6	0.723189	18 43	3 52
26	18 48 28.38	+0 52.47	22 46 24.9	+0 52.5	0.720548	18 36	3 52
28	18 49 20.85	0 49.75	−22 45 32.4	0 50.3	0.717884	18 29	3 52
30	18 50 10.60	0 46.98	22 44 42.1	0 47.9	0.715198	18 22	3 52
April 1	18 50 57.58	0 44.17	22 43 54.2	0 45.1	0.712493	18 15	3 52
3	18 51 41.75	0 41.31	22 43 9.1	0 42.2	0.709770	18 7	3 52
5	18 52 23.06	+0 38.41	22 42 26.9	+0 39.1	0.707032	18 0	3 53
7	18 53 1.47	0 35.46	−22 41 47.8	0 35.7	0.704281	17 53	3 53
9	18 53 36.93	0 32.46	22 41 12.1	0 32.2	0.701519	17 46	3 53
11	18 54 9.39	0 29.42	22 40 39.9	0 28.4	0.698749	17 38	3 53
13	18 54 38.81	0 26.34	22 40 11.5	0 24.6	0.695974	17 31	3 53
15	18 55 5.15	+0 23.21	22 39 46.9	+0 20.5	0.693198	17 24	3 53
17	18 55 28.36	0 20.03	−22 39 26.4	0 16.3	0.690423	17 16	3 53
19	18 55 48.39	0 16.84	22 39 10.1	0 12.0	0.687653	17 8	3 53
21	18 56 5.23	0 13.63	22 38 58.1	0 7.6	0.684890	17 1	3 53
23	18 56 18.86	0 10.40	22 38 50.5	+0 3.1	0.682139	16 53	3 53
25	18 56 29.26	+0 7.17	22 38 47.4	−0 1.4	0.679402	16 46	3 53
27	18 56 36.43	0 3.93	−22 38 48.8	0 5.9	0.676685	16 38	3 53
29	18 56 40.36	+0 0.69	22 38 54.7	0 10.5	0.673990	16 30	3 53
Mai 1	18 56 41.05	−0 2.54	22 39 5.2	0 15.0	0.671320	16 22	3 53
3	18 56 38.51	0 5.78	22 39 20.2	0 19.7	0.668680	16 14	3 53
5	18 56 32.73	−0 9.02	22 39 39.9	−0 24.2	0.666073	16 6	3 53
7	18 56 23.71	0 12.25	−22 40 4.1	0 28.8	0.663502	15 58	3 53
9	18 56 11.46	0 15.45	22 40 32.9	0 33.2	0.660972	15 50	3 53
11	18 55 56.01	0 18.65	22 41 6.1	0 37.6	0.658487	15 42	3 53
13	18 55 37.36	0 21.82	22 41 43.7	0 41.9	0.656050	15 34	3 53
15	18 55 15.54	−0 24.95	22 42 25.6	−0 46.1	0.653667	15 25	3 53
17	18 54 50.59	0 28.02	−22 43 11.7	0 50.1	0.651341	15 17	3 52
19	18 54 22.57	0 31.03	22 44 1.8	0 53.8	0.649078	15 9	3 52
21	18 53 51.54	0 33.97	22 44 55.6	0 57.4	0.646882	15 0	3 52
23	18 53 17.57	0 36.82	22 45 53.0	1 0.8	0.644756	14 52	3 52
25	18 52 40.75	−0 39.57	22 46 53.8	−1 3.8	0.642705	14 43	3 52
27	18 52 1.18	0 42.24	−22 47 57.6	1 6.7	0.640733	14 35	3 52
29	18 51 18.94	0 44.81	22 49 4.3	1 9.2	0.638843	14 26	3 52
31	18 50 34.13	0 47.28	22 50 13.5	1 11.6	0.637040	14 18	3 52
Juni 2	18 49 46.85	0 49.63	22 51 25.1	1 13.7	0.635326	14 9	3 51
4	18 48 57.22		22 52 38.8		0.633706	14 0	3 51

Wahrer geocentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Juni	2	18 49 46.85	−0 49.63	−22 51 25.1	−1 13.7	0.635326	14 9	3 51
	4	18 48 57.22	0 51.87	22 52 38.8	1 15.5	0.633706	14 0	3 51
	6	18 48 5.35	0 54.00	22 53 54.3	1 17.0	0.632182	13 51	3 51
	8	18 47 11.35	0 55.99	22 55 11.3	1 18.2	0.630758	13 43	3 51
	10	18 46 15.36	−0 57.83	22 56 29.5	−1 19.2	0.629438	13 34	3 51
	12	18 45 17.53	0 59.53	−22 57 48.7	1 19.9	0.628225	13 25	3 51
	14	18 44 18.00	1 1.06	22 59 8.6	1 20.2	0.627122	13 16	3 51
	16	18 43 16.94	1 2.42	23 0 28.8	1 20.2	0.626131	13 7	3 50
	18	18 42 14.52	1 3.59	23 1 49.0	1 19.9	0.625256	12 58	3 50
	20	18 41 10.93	−1 4.58	23 3 8.9	−1 19.3	0.624498	12 49	3 50
	22	18 40 6.35	1 5.38	−23 4 28.2	1 18.4	0.623858	12 40	3 50
	24	18 39 0.97	1 5.99	23 5 46.6	1 17.3	0.623338	12 31	3 50
	26	18 37 54.98	1 6.41	23 7 3.9	1 16.1	0.622940	12 22	3 50
	28	18 36 48.57	1 6.65	23 8 20.0	1 14.6	0.622663	12 13	3 49
	30	18 35 41.92	−1 6.71	23 9 34.6	−1 13.0	0.622508	12 4	3 49
Juli	2	18 34 35.21	1 6.61	−23 10 47.6	1 11.2	0.622476	11 55	3 49
	4	18 33 28.60	1 6.31	23 11 58.8	1 9.2	0.622566	11 46	3 49
	6	18 32 22.29	1 5.82	23 13 8.0	1 7.1	0.622777	11 38	3 49
	8	18 31 16.47	1 5.15	23 14 15.1	1 4.9	0.623110	11 29	3 49
	10	18 30 11.32	−1 4.30	23 15 20.0	−1 2.6	0.623563	11 20	3 49
	12	18 29 7.02	1 3.26	−23 16 22.6	1 0.2	0.624136	11 11	3 48
	14	18 28 3.76	1 2.03	23 17 22.8	0 57.7	0.624828	11 2	3 48
	16	18 27 1.73	1 0.61	23 18 20.5	0 55.2	0.625636	10 53	3 48
	18	18 26 1.12	0 59.02	23 19 15.7	0 52.7	0.626559	10 44	3 48
	20	18 25 2.10	−0 57.26	23 20 8.4	−0 50.2	0.627593	10 35	3 48
	22	18 24 4.84	0 55.36	−23 20 58.6	0 47.7	0.628736	10 26	3 48
	24	18 23 9.48	0 53.31	23 21 46.3	0 45.3	0.629985	10 17	3 48
	26	18 22 16.17	0 51.12	23 22 31.6	0 42.9	0.631336	10 9	3 48
	28	18 21 25.05	0 48.81	23 23 14.5	0 40.7	0.632786	10 0	3 48
	30	18 20 36.24	−0 46.38	23 23 55.2	−0 38.4	0.634332	9 51	3 48
Aug.	1	18 19 49.86	0 43.86	−23 24 33.6	0 36.3	0.635970	9 42	3 47
	3	18 19 6.00	0 41.23	23 25 9.9	0 34.2	0.637696	9 34	3 47
	5	18 18 24.77	0 38.50	23 25 44.1	0 32.2	0.639507	9 25	3 47
	7	18 17 46.27	0 35.67	23 26 16.3	0 30.3	0.641399	9 17	3 47
	9	18 17 10.60	−0 32.75	23 26 46.6	−0 28.4	0.643369	9 8	3 47
	11	18 16 37.85	0 29.75	−23 27 15.0	0 26.7	0.645412	9 0	3 47
	13	18 16 8.10	0 26.67	23 27 41.7	0 25.0	0.647524	8 51	3 47
	15	18 15 41.43	0 23.52	23 28 6.7	0 23.3	0.649702	8 43	3 47
	17	18 15 17.91	0 20.33	23 28 30.0	0 21.7	0.651941	8 35	3 47
	19	18 14 57.58		23 28 51.7		0.654236	8 27	3 47

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Oestl. Stunden-Winkel h m	Halber Tag-bogen h m
Aug. 17	18 15 17.91	−0 20.33	−23 28 30.0	−0 21.7	0.651941	8 35	3 47
19	18 14 57.58	0 17.10	23 28 51.7	0 20.2	0.654236	8 27	3 47
21	18 14 40.48	0 13.84	23 29 11.9	0 18.7	0.656583	8 18	3 47
23	18 14 26.64	0 10.55	23 29 30.6	0 17.4	0.658977	8 10	3 47
25	18 14 16.09	−0 7.26	23 29 48.0	−0 16.1	0.661415	8 2	3 47
27	18 14 8.83	0 3.95	−23 30 4.1	0 14.7	0.663892	7 54	3 47
29	18 14 4.88	−0 0.65	23 30 18.8	0 13.5	0.666405	7 46	3 47
31	18 14 4.23	+0 2.65	23 30 32.3	0 12.2	0.668949	7 38	3 47
Sept. 2	18 14 6.88	0 5.95	23 30 44.5	0 10.9	0.671521	7 31	3 47
4	18 14 12.83	+0 9.24	23 30 55.4	−0 9.5	0.674118	7 23	3 47
6	18 14 22.07	0 12.53	−23 31 4.9	0 8.2	0.676736	7 15	3 47
8	18 14 34.60	0 15.82	23 31 13.1	0 6.7	0.679372	7 7	3 47
10	18 14 50.42	0 19.09	23 31 19.8	0 5.3	0.682022	7 0	3 47
12	18 15 9.51	0 22.34	23 31 25.1	0 3.7	0.684683	6 52	3 47
14	18 15 31.85	+0 25.55	23 31 28.8	−0 2.1	0.687350	6 45	3 47
16	18 15 57.40	0 28.73	−23 31 30.9	−0 0.4	0.690021	6 37	3 47
18	18 16 26.13	0 31.86	23 31 31.3	+0 1.3	0.692693	6 30	3 47
20	18 16 57.99	0 34.96	23 31 30.0	0 3.1	0.695362	6 22	3 47
22	18 17 32.95	0 38.00	23 31 26.9	0 5.1	0.698025	6 15	3 47
24	18 18 10.95	+0 40.99	23 31 21.8	+0 7.2	0.700679	6 8	3 47
26	18 18 51.94	0 43.92	−23 31 14.6	0 9.3	0.703322	6 1	3 47
28	18 19 35.86	0 46.81	23 31 5.3	0 11.6	0.705952	5 54	3 47
30	18 20 22.67	0 49.64	23 30 53.7	0 14.1	0.708566	5 46	3 47
Oct. 2	18 21 12.31	0 52.43	23 30 39.6	0 16.6	0.711162	5 39	3 47
4	18 22 4.74	+0 55.18	23 30 23.0	+0 19.3	0.713738	5 32	3 47
6	18 22 59.92	0 57.89	−23 30 3.7	0 22.2	0.716292	5 25	3 47
8	18 23 57.81	1 0.54	23 29 41.5	0 25.3	0.718822	5 18	3 47
10	18 24 58.35	1 3.14	23 29 16.2	0 28.5	0.721325	5 12	3 47
12	18 26 1.49	1 5.68	23 28 47.7	0 31.8	0.723800	5 5	3 47
14	18 27 7.17	+1 8.16	23 28 15.9	+0 35.2	0.726245	4 58	3 47
16	18 28 15.33	1 10.57	−23 27 40.7	0 38.9	0.728656	4 51	3 47
18	18 29 25.90	1 12.93	23 27 1.8	0 42.7	0.731033	4 44	3 47
20	18 30 38.83	1 15.21	23 26 19.1	0 46.6	0.733374	4 38	3 47
22	18 31 54.04	1 17.42	23 25 32.5	0 50.6	0.735678	4 31	3 47
24	18 33 11.46	+1 19.58	23 24 41.9	+0 54.8	0.737943	4 25	3 47
26	18 34 31.04	1 21.67	−23 23 47.1	0 59.1	0.740168	4 18	3 48
28	18 35 52.71	1 23.71	23 22 48.0	1 3.6	0.742352	4 12	3 48
30	18 37 16.42	1 25.69	23 21 44.4	1 8.4	0.744493	4 5	3 48
Nov. 1	18 38 42.11	1 27.62	23 20 36.0	1 13.3	0.746592	3 59	3 48
3	18 40 9.73		23 19 22.7		0.748646	3 52	3 48

Wahrer geocentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Nov. 1	18 38 42.11	+1 27.62	−23 20 36.0	+1 13.3	0.746592	3 59	3 48
3	18 40 9.73	1 29.51	23 19 22.7	1 18.1	0.748646	3 52	3 48
5	18 41 39.24	1 31.33	23 18 4.6	1 23.2	0.750655	3 46	3 48
7	18 43 10.57	1 33.09	23 16 41.4	1 28.4	0.752617	3 39	3 48
9	18 44 43.66	+1 34.80	23 15 13.0	+1 33.8	0.754531	3 33	3 49
11	18 46 18.46	1 36.44	−23 13 39.2	1 39.3	0.756396	3 27	3 49
13	18 47 54.90	1 38.02	23 11 59.9	1 44.8	0.758212	3 20	3 49
15	18 49 32.92	1 39.54	23 10 15.1	1 50.5	0.759977	3 14	3 49
17	18 51 12.46	1 40.99	23 8 24.6	1 56.2	0.761690	3 8	3 49
19	18 52 53.45	+1 42.37	23 6 28.4	+2 2.0	0.763351	3 2	3 50
21	18 54 35.82	1 43.70	−23 4 26.4	2 7.9	0.764959	2 56	3 50
23	18 56 19.52	1 44.97	23 2 18.5	2 13.9	0.766513	2 49	3 50
25	18 58 4.49	1 46.18	23 0 4.6	2 20.0	0.768014	2 43	3 50
27	18 59 50.67	1 47.34	22 57 44.6	2 26.1	0.769460	2 37	3 51
29	19 1 38.01	+1 48.45	22 55 18.5	+2 32.4	0.770851	2 31	3 51
Dec. 1	19 3 26.46	1 49.52	−22 52 46.1	2 38.7	0.772187	2 25	3 51
3	19 5 15.98	1 50.53	22 50 7.4	2 45.0	0.773468	2 19	3 52
5	19 7 6.51	1 51.51	22 47 22.4	2 51.4	0.774692	2 13	3 52
7	19 8 58.02	1 52.42	22 44 31.0	2 57.8	0.775860	2 7	3 52
9	19 10 50.44	+1 53.26	22 41 33.2	+3 4.2	0.776970	2 1	3 53
11	19 12 43.70	1 54.04	−22 38 29.0	3 10.6	0.778022	1 55	3 53
13	19 14 37.74	1 54.77	22 35 18.4	3 17.0	0.779016	1 49	3 53
15	19 16 32.51	1 55.44	22 32 1.4	3 23.3	0.779951	1 43	3 54
17	19 18 27.95	1 56.05	22 28 38.1	3 29.7	0.780826	1 37	3 54
19	19 20 24.00	+1 56.62	22 25 8.4	+3 35.9	0.781642	1 31	3 55
21	19 22 20.62	1 57.12	−22 21 32.5	3 42.2	0.782399	1 25	3 55
23	19 24 17.74	1 57.57	22 17 50.3	3 48.5	0.783097	1 19	3 55
25	19 26 15.31	1 57.99	22 14 1.8	3 54.8	0.783735	1 13	3 56
27	19 28 13.30	1 58.35	22 10 7.0	4 0.9	0.784314	1 7	3 56
29	19 30 11.65	+1 58.68	22 6 6.1	+4 7.1	0.784833	1 1	3 57
31	19 32 10.33	1 58.95	−22 1 59.0	4 13.1	0.785292	0 56	3 57
33	19 34 9.28		21 57 45.9		0.785691	0 50	3 58

Wahrer geocentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
Jan. 1	18 33 39.90	+61.25	−22 37 28.6	+0 42.3	1.043335	23 52	3 53
3	18 34 41.15	61.14	22 36 46.3	0 44.0	1.043251	23 45	3 53
5	18 35 42.29	60.99	22 36 2.3	0 45.6	1.043126	23 38	3 53
7	18 36 43.28	60.81	22 35 16.7	0 47.0	1.042960	23 31	3 53
9	18 37 44.09	+60.58	22 34 29.7	+0 48.5	1.042753	23 25	3 53
11	18 38 44.67	60.32	−22 33 41.2	0 49.9	1.042505	23 18	3 54
13	18 39 44.99	60.01	22 32 51.3	0 51.2	1.042217	23 11	3 54
15	18 40 45.00	59.67	22 32 0.1	0 52.5	1.041888	23 4	3 54
17	18 41 44.67	59.28	22 31 7.6	0 53.7	1.041519	22 57	3 54
19	18 42 43.95	+58.85	22 30 13.9	+0 54.8	1.041109	22 50	3 54
21	18 43 42.80	58.38	−22 29 19.1	0 55.9	1.040660	22 43	3 54
23	18 44 41.18	57.85	22 28 23.2	0 56.8	1.040171	22 36	3 54
25	18 45 39.03	57.30	22 27 26.4	0 57.7	1.039643	22 29	3 54
27	18 46 36.33	56.70	22 26 28.7	0 58.5	1.039076	22 22	3 54
29	18 47 33.03	+56.07	22 25 30.2	+0 59.1	1.038471	22 16	3 55
31	18 48 29.10	55.40	−22 24 31.1	0 59.8	1.037828	22 9	3 55
Febr. 2	18 49 24.50	54.70	22 23 31.3	1 0.4	1.037148	22 2	3 55
4	18 50 19.20	53.96	22 22 30.9	1 0.7	1.036431	21 55	3 55
6	18 51 13.16	53.19	22 21 30.2	1 1.1	1.035678	21 48	3 55
8	18 52 6.35	+52.38	22 20 29.1	+1 1.3	1.034888	21 41	3 55
10	18 52 58.73	51.54	−22 19 27.8	1 1.5	1.034063	21 34	3 55
12	18 53 50.27	50.65	22 18 26.3	1 1.5	1.033204	21 27	3 55
14	18 54 40.92	49.72	22 17 24.8	1 1.5	1.032310	21 19	3 55
16	18 55 30.64	48.76	22 16 23.3	1 1.2	1.031383	21 12	3 56
18	18 56 19.40	+47.76	22 15 22.1	+1 0.9	1.030423	21 5	3 56
20	18 57 7.16	46.71	−22 14 21.2	1 0.5	1.029430	20 58	3 56
22	18 57 53.87	45.63	22 13 20.7	1 0.0	1.028406	20 51	3 56
24	18 58 39.50	44.52	22 12 20.7	0 59.3	1.027352	20 44	3 56
26	18 59 24.02	43.39	22 11 21.4	0 58.5	1.026268	20 37	3 56
28	19 0 7.41	+42.21	22 10 22.9	+0 57.7	1.025155	20 30	3 56
März 2	19 0 49.62	41.02	−22 9 25.2	0 56.7	1.024015	20 23	3 56
4	19 1 30.64	39.79	22 8 28.5	0 55.6	1.022848	20 15	3 57
6	19 2 10.43	38.53	22 7 32.9	0 54.5	1.021655	20 8	3 57
8	19 2 48.96	37.24	22 6 38.4	0 53.2	1.020437	20 1	3 57
10	19 3 26.20	+35.93	22 5 45.2	+0 51.8	1.019196	19 54	3 57
12	19 4 2.13	34.58	−22 4 53.4	0 50.3	1.017932	19 47	3 57
14	19 4 36.71	33.20	22 4 3.1	0 48.7	1.016645	19 39	3 57
16	19 5 9.91	31.79	22 3 14.4	0 46.9	1.015338	19 32	3 57
18	19 5 41.70	30.35	22 2 27.5	0 45.1	1.014011	19 24	3 57
20	19 6 12.05		22 1 42.4		1.012666	19 17	3 57

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
März 18	19 5 41.70	+30.35	−22 2 27.5	+0 45.1	1.014011	19 24	3 57
20	19 6 12.05	28.88	22 1 42.4	0 43.2	1.012666	19 17	3 57
22	19 6 40.93	27.39	22 0 59.2	0 41.1	1.011303	19 10	3 57
24	19 7 8.32	25.87	22 0 18.1	0 39.0	1.009925	19 2	3 57
26	19 7 34.19	+24.34	21 59 39.1	+0 36.7	1.008533	18 55	3 58
28	19 7 58.53	22.79	−21 59 2.4	0 34.5	1.007128	18 47	3 58
30	19 8 21.32	21.23	21 58 27.9	0 32.1	1.005712	18 40	3 58
April 1	19 8 42.55	19.65	21 57 55.8	0 29.7	1.004286	18 32	3 58
3	19 9 2.20	18.06	21 57 26.1	0 27.2	1.002851	18 25	3 58
5	19 9 20.26	+16.44	21 56 58.9	+0 24.7	1.001409	18 17	3 58
7	19 9 36.70	14.82	−21 56 34.2	0 22.0	0.999962	18 10	3 58
9	19 9 51.52	13.18	21 56 12.2	0 19.3	0.998510	18 2	3 58
11	19 10 4.70	11.52	21 55 52.9	0 16.5	0.997055	17 55	3 58
13	19 10 16.22	9.85	21 55 36.4	0 13.7	0.995599	17 47	3 58
15	19 10 26.07	+ 8.18	21 55 22.7	+0 10.9	0.994144	17 39	3 58
17	19 10 34.25	6.49	−21 55 11.8	0 8.0	0.992691	17 31	3 58
19	19 10 40.74	4.80	21 55 3.8	0 5.0	0.991242	17 23	3 58
21	19 10 45.54	3.11	21 54 58.8	+0 2.1	0.989799	17 15	3 58
23	19 10 48.65	+ 1.43	21 54 56.7	−0 0.8	0.988364	17 8	3 58
25	19 10 50.08	− 0.24	21 54 57.5	−0 3.7	0.986938	17 0	3 58
27	19 10 49.84	1.91	−21 55 1.2	0 6.7	0.985524	16 52	3 58
29	19 10 47.93	3.57	21 55 7.9	0 9.6	0.984123	16 44	3 58
Mai 1	19 10 44.36	5.21	21 55 17.5	0 12.4	0.982737	16 36	3 58
3	19 10 39.15	6.84	21 55 29.9	0 15.4	0.981367	16 28	3 58
5	19 10 32.31	− 8.47	21 55 45.3	−0 18.2	0.980015	16 20	3 58
7	19 10 23.84	10.07	−21 56 3.5	0 21.0	0.978684	16 12	3 58
9	19 10 13.77	11.67	21 56 24.5	0 23.8	0.977375	16 4	3 58
11	19 10 2.10	13.25	21 56 48.3	0 26.6	0.976089	15 56	3 58
13	19 9 48.85	14.79	21 57 14.9	0 29.2	0.974828	15 48	3 58
15	19 9 34.06	−16.32	21 57 44.1	−0 31.9	0.973595	15 40	3 58
17	19 9 17.74	17.82	−21 58 16.0	0 34.4	0.972391	15 31	3 58
19	19 8 59.92	19.28	21 58 50.4	0 36.9	0.971218	15 23	3 58
21	19 8 40.64	20.70	21 59 27.3	0 39.2	0.970078	15 15	3 58
23	19 8 19.94	22.08	22 0 6.5	0 41.5	0.968973	15 7	3 58
25	19 7 57.86	−23.40	22 0 48.0	−0 43.6	0.967904	14 59	3 57
27	19 7 34.46	24.69	−22 1 31.6	0 45.7	0.966874	14 50	3 57
29	19 7 9.77	25.93	22 2 17.3	0 47.7	0.965883	14 42	3 57
31	19 6 43.84	27.12	22 3 5.0	0 49.5	0.964934	14 34	3 57
Juni 2	19 6 16.72	28.27	22 3 54.5	0 51.2	0.964027	14 25	3 57
4	19 5 48.45		22 4 45.7		0.963164	14 17	3 57

Wahrer geocentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	′ ″		h m	h m
Juni	2	19 6 16.72	−28.27	−22 3 54.5	−0 51.2	0.964027	14 25	3 57
	4	19 5 48.45	29.36	22 4 45.7	0 52.8	0.963164	14 17	3 57
	6	19 5 19.09	30.40	22 5 38.5	0 54.4	0.962346	14 9	3 57
	8	19 4 48.69	31.39	22 6 32.9	0 55.8	0.961574	14 0	3 57
	10	19 4 17.30	−32.33	22 7 28.7	−0 57.0	0.960850	13 52	3 57
	12	19 3 44.97	33.19	−22 8 25.7	0 58.2	0.960176	13 43	3 57
	14	19 3 11.78	33.98	22 9 23.9	0 59.2	0.959553	13 35	3 56
	16	19 2 37.80	34.72	22 10 23.1	1 0.1	0.958981	13 27	3 56
	18	19 2 3.08	35.38	22 11 23.2	1 0.8	0.958462	13 18	3 56
	20	19 1 27.70	−35.95	22 12 24.0	−1 1.3	0.957996	13 10	3 56
	22	19 0 51.75	36.46	−22 13 25.3	1 1.8	0.957585	13 1	3 56
	24	19 0 15.29	36.90	22 14 27.1	1 2.1	0.957230	12 53	3 56
	26	18 59 38.39	37.26	22 15 29.2	1 2.4	0.956930	12 44	3 56
	28	18 59 1.13	37.53	22 16 31.6	1 2.4	0.956686	12 36	3 56
	30	18 58 23.60	−37.73	22 17 34.0	−1 2.4	0.956499	12 27	3 55
Juli	2	18 57 45.87	37.87	−22 18 36.4	1 2.2	0.956368	12 19	3 55
	4	18 57 8.00	37.95	22 19 38.6	1 2.0	0.956294	12 10	3 55
	6	18 56 30.05	37.96	22 20 40.6	1 1.6	0.956277	12 2	3 55
	8	18 55 52.09	37.88	22 21 42.2	1 1.1	0.956317	11 53	3 55
	10	18 55 14.21	−37.72	22 22 43.3	−1 0.7	0.956414	11 45	3 55
	12	18 54 36.49	37.47	−22 23 44.0	1 0.1	0.956569	11 36	3 55
	14	18 53 59.02	37.16	22 24 44.1	0 59.3	0.956780	11 28	3 55
	16	18 53 21.86	36.76	22 25 43.4	0 58.3	0.957048	11 19	3 55
	18	18 52 45.10	36.28	22 26 41.7	0 57.3	0.957373	11 10	3 54
	20	18 52 8.82	−35.73	22 27 39.0	−0 56.4	0.957753	11 2	3 54
	22	18 51 33.09	35.10	−22 28 35.4	0 55.3	0.958187	10 54	3 54
	24	18 50 57.99	34.41	22 29 30.7	0 54.1	0.958675	10 45	3 54
	26	18 50 23.58	33.64	22 30 24.8	0 52.9	0.959217	10 37	3 54
	28	18 49 49.94	32.82	22 31 17.7	0 51.6	0.959810	10 28	3 54
	30	18 49 17.12	−31.94	22 32 9.3	−0 50.3	0.960454	10 20	3 54
Aug.	1	18 48 45.18	30.99	−22 32 59.6	0 48.9	0.961147	10 11	3 54
	3	18 48 14.19	30.00	22 33 48.5	0 47.6	0.961889	10 3	3 54
	5	18 47 44.19	28.93	22 34 36.1	0 46.1	0.962678	9 55	3 53
	7	18 47 15.26	27.81	22 35 22.2	0 44.7	0.963514	9 46	3 53
	9	18 46 47.45	−26.64	22 36 6.9	−0 43.1	0.964395	9 38	3 53
	11	18 46 20.81	25.40	−22 36 50.0	0 41.5	0.965319	9 29	3 53
	13	18 45 55.41	24.12	22 37 31.5	0 40.0	0.966286	9 21	3 53
	15	18 45 31.29	22.78	22 38 11.5	0 38.3	0.967293	9 13	3 53
	17	18 45 8.51	21.40	22 38 49.8	0 36.8	0.968339	9 5	3 53
	19	18 44 47.11		22 39 26.6		0.969421	8 56	3 53

Wahrer geocentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tagbogen
	h m s	s	° ′ ″	′ ″		h m	h m
Aug. 17	18 45 8.51	−21.40	−22 38 49.8	−0 36.8	0.968339	9 5	3 53
19	18 44 47.11	19.97	22 39 26.6	0 35.1	0.969421	8 56	3 53
21	18 44 27.14	18.52	22 40 1.7	0 33.4	0.970539	8 48	3 53
23	18 44 8.62	17.02	22 40 35.1	0 31.7	0.971690	8 40	3 53
25	18 43 51.60	−15.50	22 41 6.8	−0 30.1	0.972873	8 32	3 53
27	18 43 36.10	13.96	−22 41 36.9	0 28.4	0.974086	8 24	3 53
29	18 43 22.14	12.39	22 42 5.3	0 26.8	0.975327	8 16	3 53
31	18 43 9.75	10.80	22 42 32.1	0 25.0	0.976594	8 7	3 53
Sept. 2	18 42 58.95	9.19	22 42 57.1	0 23.4	0.977885	7 59	3 52
4	18 42 49.76	− 7.55	22 43 20.5	−0 21.7	0.979200	7 51	3 52
6	18 42 42.21	5.89	−22 43 42.2	0 19.9	0.980536	7 43	3 52
8	18 42 36.32	4.22	22 44 2.1	0 18.1	0.981892	7 35	3 52
10	18 42 32.10	2.53	22 44 20.2	0 16.4	0.983265	7 27	3 52
12	18 42 29.57	− 0.83	22 44 36.6	0 14.6	0.984654	7 19	3 52
14	18 42 28.74	+ 0.88	22 44 51.2	−0 12.9	0.986057	7 12	3 52
16	18 42 29.62	2.59	−22 45 4.1	0 11.1	0.987471	7 4	3 52
18	18 42 32.21	4.30	22 45 15.2	0 9.2	0.988895	6 56	3 52
20	18 42 36.51	6.01	22 45 24.4	0 7.4	0.990327	6 48	3 52
22	18 42 42.52	7.71	22 45 31.8	0 5.6	0.991766	6 40	3 52
24	18 42 50.23	+ 9.40	22 45 37.4	−0 3.8	0.993210	6 32	3 52
26	18 42 59.63	11.08	−22 45 41.2	0 1.9	0.994656	6 25	3 52
28	18 43 10.71	12.75	22 45 43.1	−0 0.1	0.996103	6 17	3 52
30	18 43 23.46	14.42	22 45 43.2	+0 1.8	0.997550	6 9	3 52
Oct. 2	18 43 37.88	16.07	22 45 41.4	0 3.7	0.998996	6 2	3 52
4	18 43 53.95	+17.71	22 45 37.7	+0 5.6	1.000438	5 54	3 52
6	18 44 11.66	19.34	−22 45 32.1	0 7.6	1.001875	5 47	3 52
8	18 44 31.00	20.96	22 45 24.5	0 9.6	1.003306	5 39	3 52
10	18 44 51.96	22.56	22 45 14.9	0 11.6	1.004729	5 31	3 52
12	18 45 14.52	24.14	22 45 3.3	0 13.6	1.006143	5 24	3 52
14	18 45 38.66	+25.70	22 44 49.7	+0 15.7	1.007545	5 16	3 52
16	18 46 4.36	27.23	−22 44 34.0	0 17.7	1.008935	5 9	3 52
18	18 46 31.59	28.74	22 44 16.3	0 19.8	1.010310	5 2	3 52
20	18 47 0.33	30.21	22 43 56.5	0 21.9	1.011670	4 54	3 52
22	18 47 30.54	31.66	22 43 34.6	0 24.1	1.013014	4 47	3 52
24	18 48 2.20	+33.07	22 43 10.5	+0 26.2	1.014339	4 39	3 52
26	18 48 35.27	34.46	−22 42 44.3	0 28.4	1.015645	4 32	3 52
28	18 49 9.73	35.81	22 42 15.9	0 30.5	1.016931	4 25	3 53
30	18 49 45.54	37.14	22 41 45.4	0 32.8	1.018196	4 17	3 53
Nov. 1	18 50 22.68	38.45	22 41 12.6	0 35.0	1.019439	4 10	3 53
3	18 51 1.13		22 40 37.6		1.020658	4 3	3 53

Wahrer geocentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	′ ″		h m	h m
Nov.	1	18 50 22.68	+38.45	−22 41 12.6	+0 35.0	1.019439	4 10	3 53
	3	18 51 1.13	39.73	22 40 37.6	0 37.4	1.020658	4 3	3 53
	5	18 51 40.86	40.97	22 40 0.2	0 39.6	1.021853	3 56	3 53
	7	18 52 21.83	42.19	22 39 20.6	0 41.9	1.023021	3 49	3 53
	9	18 53 4.02	+43.36	22 38 38.7	+0 44.3	1.024163	3 41	3 53
	11	18 53 47.38	44.51	−22 37 54.4	0 46.6	1.025278	3 34	3 53
	13	18 54 31.89	45.61	22 37 7.8	0 49.0	1.026364	3 27	3 53
	15	18 55 17.50	46.68	22 36 18.8	0 51.3	1.027420	3 20	3 53
	17	18 56 4.18	47.70	22 35 27.5	0 53.7	1.028446	3 13	3 53
	19	18 56 51.88	+48.69	22 34 33.8	+0 56.0	1.029441	3 6	3 53
	21	18 57 40.57	49.64	−22 33 37.8	0 58.4	1.030403	2 59	3 54
	23	18 58 30.21	50.54	22 32 39.4	1 0.8	1.031333	2 52	3 54
	25	18 59 20.75	51.42	22 31 38.6	1 3.1	1.032229	2 45	3 54
	27	19 0 12.17	52.26	22 30 35.5	1 5.6	1.033092	2 38	3 54
	29	19 1 4.43	+53.06	22 29 29.9	+1 7.9	1.033920	2 31	3 54
Dec.	1	19 1 57.49	53.83	−22 28 22.0	1 10.2	1.034713	2 24	3 54
	3	19 2 51.32	54.56	22 27 11.8	1 12.6	1.035471	2 17	3 54
	5	19 3 45.88	55.26	22 25 59.2	1 15.0	1.036192	2 10	3 54
	7	19 4 41.14	55.91	22 24 44.2	1 17.3	1.036876	2 3	3 55
	9	19 5 37.05	+56.52	22 23 26.9	+1 19.6	1.037523	1 56	3 55
	11	19 6 33.57	57.09	−22 22 7.3	1 21.8	1.038132	1 49	3 55
	13	19 7 30.66	57.62	22 20 45.5	1 24.1	1.038702	1 42	3 55
	15	19 8 28.28	58.10	22 19 21.4	1 26.3	1.039233	1 35	3 55
	17	19 9 26.38	58.54	22 17 55.1	1 28.4	1.039725	1 28	3 55
	19	19 10 24.92	+58.94	22 16 26.7	+1 30.6	1.040177	1 21	3 56
	21	19 11 23.86	59.29	−22 14 56.1	1 32.6	1.040590	1 14	3 56
	23	19 12 23.15	59.62	22 13 23.5	1 34.7	1.040963	1 7	3 56
	25	19 13 22.77	59.90	22 11 48.8	1 36.6	1.041296	1 0	3 56
	27	19 14 22.67	60.15	22 10 12.2	1 38.5	1.041588	0 53	3 56
	29	19 15 22.82	+60.36	22 8 33.7	+1 40.4	1.041840	0 47	3 57
	31	19 16 23.18	60.52	−22 6 53.3	1 42.3	1.042051	0 40	3 57
	33	19 17 23.70		22 5 11.0		1.042222	0 33	3 57

Wahrer geocentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	″		h m	h m
Jan.	1	16 52 2.19	+29.00	−22 31 28.2	−48.0	1.299688	22 10	3 54
	3	16 52 31.19	28.62	22 32 16.2	47.1	1.299354	22 3	3 54
	5	16 52 59.81	28.23	22 33 3.3	46.1	1.298998	21 56	3 54
	7	16 53 28.04	27.81	22 33 49.4	45.1	1.298620	21 48	3 54
	9	16 53 55.85	+27.37	22 34 34.5	−44.1	1.298220	21 41	3 53
	11	16 54 23.22	26.89	−22 35 18.6	43.1	1.297799	21 33	3 53
	13	16 54 50.11	26.40	22 36 1.7	42.0	1.297358	21 26	3 53
	15	16 55 16.51	25.88	22 36 43.7	41.0	1.296896	21 18	3 53
	17	16 55 42.39	25.33	22 37 24.7	39.9	1.296414	21 11	3 53
	19	16 56 7.72	+24.77	22 38 4.6	−38.8	1.295912	21 4	3 53
	21	16 56 32.49	24.17	−22 38 43.4	37.6	1.295391	20 56	3 53
	23	16 56 56.66	23.55	22 39 21.0	36.5	1.294852	20 49	3 53
	25	16 57 20.21	22.92	22 39 57.5	35.3	1.294295	20 41	3 53
	27	16 57 43.13	22.26	22 40 32.8	34.1	1.293720	20 34	3 53
	29	16 58 5.39	+21.59	22 41 6.9	−33.0	1.293129	20 26	3 53
	31	16 58 26.98	20.90	−22 41 39.9	31.8	1.292522	20 19	3 53
Febr.	2	16 58 47.88	20.19	22 42 11.7	30.5	1.291900	20 11	3 53
	4	16 59 8.07	19.46	22 42 42.2	29.4	1.291263	20 3	3 52
	6	16 59 27.53	18.72	22 43 11.6	28.1	1.290612	19 56	3 52
	8	16 59 46.25	+17.96	22 43 39.7	−26.9	1.289947	19 48	3 52
	10	17 0 4.21	17.17	−22 44 6.6	25.7	1.289269	19 41	3 52
	12	17 0 21.38	16.38	22 44 32.3	24.4	1.288580	19 33	3 52
	14	17 0 37.76	15.57	22 44 56.7	23.2	1.287879	19 26	3 52
	16	17 0 53.33	14.74	22 45 19.9	21.9	1.287167	19 18	3 52
	18	17 1 8.07	+13.90	22 45 41.8	−20.7	1.286445	19 10	3 52
	20	17 1 21.97	13.05	−22 46 2.5	19.4	1.285714	19 3	3 52
	22	17 1 35.02	12.18	22 46 21.9	18.2	1.284975	18 55	3 52
	24	17 1 47.20	11.31	22 46 40.1	16.9	1.284228	18 47	3 52
	26	17 1 58.51	10.42	22 46 57.0	15.7	1.283476	18 40	3 52
	28	17 2 8.93	+ 9.54	22 47 12.7	−14.4	1.282718	18 32	3 52
März	2	17 2 18.47	8.64	−22 47 27.1	13.1	1.281955	18 24	3 52
	4	17 2 27.11	7.74	22 47 40.2	11.7	1.281188	18 16	3 52
	6	17 2 34.85	6.84	22 47 51.9	10.5	1.280419	18 9	3 52
	8	17 2 41.69	5.93	22 48 2.4	9.2	1.279648	18 1	3 52
	10	17 2 47.62	+ 5.01	22 48 11.6	− 8.0	1.278875	17 53	3 52
	12	17 2 52.63	4.10	−22 48 19.6	6.8	1.278102	17 45	3 52
	14	17 2 56.73	3.18	22 48 26.4	5.5	1.277329	17 37	3 52
	16	17 2 59.91	2.25	22 48 31.9	4.3	1.276558	17 30	3 52
	18	17 3 2.16	1.33	22 48 36.2	3.0	1.275789	17 22	3 52
	20	17 3 3.49		22 48 39.2		1.275024	17 14	3 52

Wahrer geocentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
März 18	17h 3m 2.16s	+1.33s	−22° 48′ 36.2″	−3.0″	1.275789	17h 22m	3h 52m
20	17 3 3.49	+0.41	22 48 39.2	1.8	1.275024	17 14	3 52
22	17 3 3.90	−0.50	22 48 41.0	−0.5	1.274263	17 6	3 52
24	17 3 3.40	1.42	22 48 41.5	+0.7	1.273508	16 58	3 52
26	17 3 1.98	−2.31	22 48 40.8	+1.9	1.272759	16 50	3 52
28	17 2 59.67	3.20	−22 48 38.9	3.1	1.272017	16 42	3 52
30	17 2 56.47	4.08	22 48 35.8	4.4	1.271284	16 34	3 52
April 1	17 2 52.39	4.95	22 48 31.4	5.6	1.270560	16 26	3 52
3	17 2 47.44	5.82	22 48 25.8	6.8	1.269846	16 18	3 52
5	17 2 41.62	−6.66	22 48 19.0	+7.9	1.269143	16 10	3 52
7	17 2 34.96	7.50	−22 48 11.1	9.1	1.268452	16 2	3 52
9	17 2 27.46	8.33	22 48 2.0	10.4	1.267774	15 54	3 52
11	17 2 19.13	9.13	22 47 51.6	11.5	1.267109	15 46	3 52
13	17 2 10.00	9.92	22 47 40.1	12.4	1.266459	15 38	3 52
15	17 2 0.08	−10.70	22 47 27.7	+13.5	1.265824	15 30	3 52
17	17 1 49.38	11.46	−22 47 14.2	14.7	1.265205	15 22	3 52
19	17 1 37.92	12.20	22 46 59.5	15.8	1.264603	15 14	3 52
21	17 1 25.72	12.91	22 46 43.7	16.8	1.264020	15 6	3 52
23	17 1 12.81	13.60	22 46 26.9	17.9	1.263455	14 58	3 52
25	17 0 59.21	−14.26	22 46 9.0	+18.9	1.262910	14 50	3 52
27	17 0 44.95	14.90	−22 45 50.1	19.9	1.262385	14 42	3 52
29	17 0 30.05	15.50	22 45 30.2	20.9	1.261881	14 34	3 52
Mai 1	17 0 14.55	16.08	22 45 9.3	21.8	1.261400	14 26	3 52
3	16 59 58.47	16.65	22 44 47.5	22.7	1.260941	14 18	3 52
5	16 59 41.82	−17.17	22 44 24.8	+23.6	1.260505	14 10	3 52
7	16 59 24.65	17.67	−22 44 1.2	24.4	1.260092	14 1	3 52
9	16 59 6.98	18.15	22 43 36.8	25.2	1.259703	13 53	3 52
11	16 58 48.83	18.59	22 43 11.6	26.0	1.259338	13 45	3 52
13	16 58 30.24	19.01	22 42 45.6	26.8	1.258998	13 36	3 52
15	16 58 11.23	−19.39	22 42 18.8	+27.5	1.258685	13 28	3 53
17	16 57 51.84	19.73	−22 41 51.3	28.1	1.258398	13 20	3 53
19	16 57 32.11	20.04	22 41 23.2	28.7	1.258137	13 12	3 53
21	16 57 12.07	20.32	22 40 54.5	29.3	1.257904	13 4	3 53
23	16 56 51.75	20.55	22 40 25.2	29.9	1.257698	12 55	3 53
25	16 56 31.20	−20.76	22 39 55.3	+30.3	1.257520	12 47	3 53
27	16 56 10.44	20.92	−22 39 25.0	30.8	1.257369	12 39	3 53
29	16 55 49.52	21.06	22 38 54.2	31.1	1.257246	12 31	3 53
31	16 55 28.46	21.16	22 38 23.1	31.5	1.257151	12 22	3 53
Juni 2	16 55 7.30	21.22	22 37 51.6	31.8	1.257085	12 14	3 53
4	16 54 46.08		22 37 19.8		1.257047	12 6	3 53

Wahrer geocentrischer Ort.

0ʰ Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	″		h m	h m
Juni	2	16 55 7.30	−21.22	−22 37 51.6	+31.8	1.257085	12 14	3 53
	4	16 54 46.08	21.25	22 37 19.8	32.0	1.257047	12 6	3 53
	6	16 54 24.83	21.25	22 36 47.8	32.2	1.257037	11 58	3 53
	8	16 54 3.58	21.22	22 36 15.6	32.3	1.257055	11 50	3 53
	10	16 53 42.36	−21.14	22 35 43.3	+32.3	1.257102	11 41	3 53
	12	16 53 21.22	21.04	−22 35 11.0	32.3	1.257177	11 33	3 53
	14	16 53 0.18	20.89	22 34 38.7	32.3	1.257280	11 25	3 53
	16	16 52 39.29	20.71	22 34 6.4	32.2	1.257412	11 17	3 54
	18	16 52 18.58	20.49	22 33 34.2	32.0	1.257571	11 8	3 54
	20	16 51 58.09	−20.24	22 33 2.2	+31.7	1.257758	11 0	3 54
	22	16 51 37.85	19.95	−22 32 30.5	31.5	1.257973	10 52	3 54
	24	16 51 17.90	19.63	22 31 59.0	31.1	1.258215	10 44	3 54
	26	16 50 58.27	19.29	22 31 27.9	30.7	1.258483	10 35	3 54
	28	16 50 38.98	18.90	22 30 57.2	30.3	1.258777	10 27	3 54
	30	16 50 20.08	−18.49	22 30 26.9	+29.7	1.259097	10 19	3 54
Juli	2	16 50 1.59	18.06	−22 29 57.2	29.0	1.259443	10 11	3 54
	4	16 49 43.53	17.59	22 29 28.2	28.4	1.259813	10 3	3 54
	6	16 49 25.94	17.10	22 28 59.8	27.7	1.260207	9 54	3 54
	8	16 49 8.84	16.57	22 28 32.1	26.9	1.260625	9 46	3 54
	10	16 48 52.27	−16.03	22 28 5.2	+26.1	1.261067	9 38	3 54
	12	16 48 36.24	15.46	−22 27 39.1	25.2	1.261531	9 30	3 54
	14	16 48 20.78	14.85	22 27 13.9	24.3	1.262017	9 22	3 54
	16	16 48 5.93	14.21	22 26 49.6	23.3	1.262525	9 14	3 54
	18	16 47 51.72	13.56	22 26 26.3	22.3	1.263053	9 6	3 54
	20	16 47 38.16	−12.89	22 26 4.0	+21.2	1.263602	8 57	3 54
	22	16 47 25.27	12.19	−22 25 42.8	20.1	1.264170	8 49	3 55
	24	16 47 13.08	11.47	22 25 22.7	18.9	1.264756	8 41	3 55
	26	16 47 1.61	10.74	22 25 3.8	17.6	1.265359	8 33	3 55
	28	16 46 50.87	10.00	22 24 46.2	16.4	1.265979	8 25	3 55
	30	16 46 40.87	− 9.23	22 24 29.8	+15.1	1.266615	8 17	3 55
Aug.	1	16 46 31.64	8.46	−22 24 14.7	13.8	1.267266	8 9	3 55
	3	16 46 23.18	7.66	22 24 0.9	12.3	1.267932	8 1	3 55
	5	16 46 15.52	6.86	22 23 48.6	11.0	1.268611	7 53	3 55
	7	16 46 8.66	6.04	22 23 37.6	9.6	1.269303	7 45	3 55
	9	16 46 2.62	− 5.20	22 23 28.0	+ 8.2	1.270007	7 37	3 55
	11	16 45 57.42	4.37	−22 23 19.8	6.7	1.270722	7 29	3 55
	13	16 45 53.05	3.51	22 23 13.1	5.2	1.271447	7 21	3 55
	15	16 45 49.54	2.65	22 23 7.9	3.6	1.272182	7 13	3 55
	17	16 45 46.89	1.77	22 23 4.3	2.1	1.272924	7 5	3 55
	19	16 45 45.12		22 23 2.2		1.273674	6 57	3 55

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Aug. 17	16 45 46.89	− 1.77	−22 23 4.3	+ 2.1	1.272924	7 5	3 55
19	16 45 45.12	0.90	22 23 2.2	+ 0.6	1.273674	6 57	3 55
21	16 45 44.22	− 0.02	22 23 1.6	− 0.9	1.274431	6 49	3 55
23	16 45 44.20	+ 0.86	22 23 2.5	2.5	1.275193	6 42	3 55
25	16 45 45.06	+ 1.75	22 23 5.0	− 4.1	1.275960	6 34	3 55
27	16 45 46.81	2.63	−22 23 9.1	5.7	1.276730	6 26	3 55
29	16 45 49.44	3.50	22 23 14.8	7.2	1.277503	6 18	3 55
31	16 45 52.94	4.38	22 23 22.0	8.8	1.278278	6 10	3 55
Sept. 2	16 45 57.32	5.26	22 23 30.8	10.2	1.279054	6 2	3 55
4	16 46 2.58	+ 6.15	22 23 41.0	−11.8	1.279831	5 55	3 55
6	16 46 8.73	7.02	−22 23 52.8	13.3	1.280607	5 47	3 55
8	16 46 15.75	7.89	22 24 6.1	14.9	1.281382	5 39	3 55
10	16 46 23.64	8.77	22 24 21.0	16.3	1.282154	5 31	3 55
12	16 46 32.41	9.64	22 24 37.3	17.8	1.282924	5 24	3 55
14	16 46 42.05	+10.50	22 24 55.1	−19.2	1.283690	5 16	3 55
16	16 46 52.55	11.35	−22 25 14.3	20.7	1.284451	5 8	3 55
18	16 47 3.90	12.19	22 25 35.0	22.1	1.285206	5 0	3 55
20	16 47 16.09	13.03	22 25 57.1	23.5	1.285955	4 53	3 54
22	16 47 29.12	13.84	22 26 20.6	24.8	1.286696	4 45	3 54
24	16 47 42.96	+14.64	22 26 45.4	−26.2	1.287429	4 37	3 54
26	16 47 57.60	15.42	−22 27 11.6	27.4	1.288153	4 30	3 54
28	16 48 13.02	16.21	22 27 39.0	28.6	1.288868	4 22	3 54
30	16 48 29.23	16.98	22 28 7.6	29.8	1.289572	4 14	3 54
Oct. 2	16 48 46.21	17.74	22 28 37.4	31.0	1.290266	4 7	3 54
4	16 49 3.95	+18.49	22 29 8.4	−32.2	1.290948	3 59	3 54
6	16 49 22.44	19.22	−22 29 40.6	33.2	1.291618	3 52	3 54
8	16 49 41.66	19.94	22 30 13.8	34.3	1.292275	3 44	3 54
10	16 50 1.60	20.64	22 30 48.1	35.2	1.292918	3 37	3 54
12	16 50 22.24	21.32	22 31 23.3	36.2	1.293547	3 29	3 54
14	16 50 43.56	+21.99	22 31 59.5	−37.2	1.294161	3 22	3 54
16	16 51 5.55	22.64	−22 32 36.7	38.0	1.294759	3 14	3 54
18	16 51 28.19	23.26	22 33 14.7	38.8	1.295341	3 7	3 54
20	16 51 51.45	23.86	22 33 53.5	39.6	1.295906	2 59	3 54
22	16 52 15.31	24.45	22 34 33.1	40.3	1.296454	2 51	3 53
24	16 52 39.76	+25.01	22 35 13.4	−41.0	1.296984	2 44	3 53
26	16 53 4.77	25.55	−22 35 54.4	41.6	1.297496	2 37	3 53
28	16 53 30.32	26.07	22 36 36.0	42.2	1.297989	2 29	3 53
30	16 53 56.39	26.58	22 37 18.2	42.7	1.298463	2 22	3 53
Nov. 1	16 54 22.97	27.07	22 38 0.9	43.1	1.298917	2 14	3 53
3	16 54 50.04		22 38 44.0		1.299351	2 7	3 53

Wahrer geocentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	″		h m	h m
Nov.	1	16 54 22.97	+27.07	−22 38 0.9	−43.1	1.298917	2 14	3 53
	3	16 54 50.04	27.53	22 38 44.0	43.6	1.299351	2 7	3 53
	5	16 55 17.57	27.97	22 39 27.6	44.0	1.299764	1 59	3 53
	7	16 55 45.54	28.39	22 40 11.6	44.3	1.300157	1 52	3 53
	9	16 56 13.93	+28.79	22 40 55.9	−44.5	1.300528	1 45	3 53
	11	16 56 42.72	29.15	−22 41 40.4	44.8	1.300878	1 37	3 53
	13	16 57 11.87	29.50	22 42 25.2	45.0	1.301205	1 30	3 53
	15	16 57 41.37	29.82	22 43 10.2	45.2	1.301509	1 22	3 52
	17	16 58 11.19	30.11	22 43 55.4	45.2	1.301791	1 15	3 52
	19	16 58 41.30	+30.37	22 44 40.6	−45.3	1.302051	1 8	3 52
	21	16 59 11.67	30.61	−22 45 25.9	45.2	1.302287	1 0	3 52
	23	16 59 42.28	30.83	22 46 11.1	45.1	1.302499	0 53	3 52
	25	17 0 13.11	31.02	22 46 56.2	45.1	1.302688	0 45	3 52
	27	17 0 44.13	31.19	22 47 41.3	44.9	1.302853	0 38	3 52
	29	17 1 15.32	+31.33	22 48 26.2	−44.8	1.302995	0 31	3 52
Dec.	1	17 1 46.65	31.45	−22 49 11.0	44.5	1.303112	0 23	3 52
	3	17 2 18.10	31.55	22 49 55.5	44.3	1.303205	0 16	3 52
	5	17 2 49.65	31.62	22 50 39.8	44.0	1.303274	0 9	3 52
	7	17 3 21.27	31.67	22 51 23.8	43.7	1.303319	0 1	3 51
	9	17 3 52.94	+31.67	22 52 7.5	−43.3	1.303339	23 54	3 51
	11	17 4 24.61	31.65	−22 52 50.8	42.9	1.303334	23 47	3 51
	13	17 4 56.26	31.61	22 53 33.7	42.4	1.303304	23 39	3 51
	15	17 5 27.87	31.53	22 54 16.1	42.0	1.303250	23 32	3 51
	17	17 5 59.40	31.44	22 54 58.1	41.5	1.303172	23 24	3 51
	19	17 6 30.84	+31.31	22 55 39.6	−40.9	1.303070	23 17	3 51
	21	17 7 2.15	31.15	−22 56 20.5	40.4	1.302943	23 10	3 51
	23	17 7 33.30	30.98	22 57 0.9	39.7	1.302793	23 2	3 51
	25	17 8 4.28	30.77	22 57 40.6	39.1	1.302618	22 55	3 51
	27	17 8 35.05	30.55	22 58 19.7	38.5	1.302419	22 48	3 51
	29	17 9 5.60	+30.30	22 58 58.2	−37.8	1.302197	22 40	3 51
	31	17 9 35.90	30.02	−22 59 36.0	37.2	1.301952	22 33	3 50
	33	17 10 5.92		23 0 13.2		1.301683	22 25	3 50

Wahrer geocentrischer Ort.

0h Mittl. Zeit		AR. h m s	Diff. s	Decl. ° ′ ″	Diff. ″	Log. Δ	Oestl. Stunden-Winkel h m	Halber Tag-bogen h m
Jan.	1	5 49 12.14	−14.17	+22 10 42.8	−1.4	1.461178	11 8	8 13
	3	5 48 57.97	14.00	22 10 41.4	1.3	1.461305	10 59	8 13
	5	5 48 43.97	13.81	22 10 40.1	1.1	1.461449	10 51	8 13
	7	5 48 30.16	13.59	22 10 39.0	0.9	1.461611	10 43	8 13
	9	5 48 16.57	−13.35	22 10 38.1	−0.7	1.461791	10 35	8 13
	11	5 48 3.22	13.10	+22 10 37.4	0.6	1.461988	10 27	8 13
	13	5 47 50.12	12.82	22 10 36.8	0.4	1.462202	10 19	8 13
	15	5 47 37.30	12.52	22 10 36.4	−0.2	1.462433	10 11	8 13
	17	5 47 24.78	12.19	22 10 36.2	0.0	1.462680	10 3	8 13
	19	5 47 12.59	−11.85	22 10 36.2	+0.2	1.462943	9 55	8 13
	21	5 47 0.74	11.49	+22 10 36.4	0.5	1.463222	9 47	8 13
	23	5 46 49.25	11.11	22 10 36.9	0.7	1.463517	9 38	8 13
	25	5 46 38.14	10.70	22 10 37.6	0.9	1.463826	9 30	8 13
	27	5 46 27.44	10.29	22 10 38.5	1.1	1.464150	9 22	8 13
	29	5 46 17.15	− 9.85	22 10 39.6	+1.3	1.464488	9 14	8 13
	31	5 46 7.30	9.41	+22 10 40.9	1.6	1.464839	9 6	8 13
Febr.	2	5 45 57.89	8.94	22 10 42.5	1.8	1.465202	8 58	8 13
	4	5 45 48.95	8.47	22 10 44.3	2.1	1.465578	8 50	8 13
	6	5 45 40.48	7.98	22 10 46.4	2.4	1.465966	8 42	8 13
	8	5 45 32.50	− 7.49	22 10 48.8	+2.6	1.466365	8 34	8 13
	10	5 45 25.01	6.97	+22 10 51.4	2.8	1.466774	8 26	8 13
	12	5 45 18.04	6.45	22 10 54.2	3.1	1.467194	8 18	8 13
	14	5 45 11.59	5.91	22 10 57.3	3.4	1.467624	8 10	8 13
	16	5 45 5.68	5.37	22 11 0.7	3.6	1.468063	8 2	8 13
	18	5 45 0.31	− 4.82	22 11 4.3	+3.9	1.468510	7 54	8 13
	20	5 44 55.49	4.25	+22 11 8.2	4.1	1.468965	7 46	8 13
	22	5 44 51.24	3.68	22 11 12.3	4.4	1.469427	7 38	8 13
	24	5 44 47.56	3.10	22 11 16.7	4.7	1.469896	7 30	8 13
	26	5 44 44.46	2.53	22 11 21.4	4.9	1.470371	7 22	8 13
	28	5 44 41.93	− 1.94	22 11 26.3	+5.2	1.470850	7 14	8 13
März	2	5 44 39.99	1.36	+22 11 31.5	5.5	1.471334	7 6	8 13
	4	5 44 38.63	0.77	22 11 37.0	5.6	1.471823	6 59	8 13
	6	5 44 37.86	− 0.19	22 11 42.6	5.8	1.472315	6 51	8 13
	8	5 44 37.67	+ 0.40	22 11 48.4	6.1	1.472810	6 43	8 13
	10	5 44 38.07	+ 0.99	22 11 54.5	+6.4	1.473307	6 35	8 13
	12	5 44 39.06	1.58	+22 12 0.9	6.5	1.473806	6 27	8 13
	14	5 44 40.64	2.18	22 12 7.4	6.7	1.474306	6 19	8 13
	16	5 44 42.82	2.77	22 12 14.1	7.0	1.474806	6 11	8 13
	18	5 44 45.59	3.35	22 12 21.1	7.3	1.475306	6 4	8 13
	20	5 44 48.94		22 12 28.4		1.475805	5 56	8 13

Wahrer geocentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	″		h m	h m
März	18	5 44 45.59	+ 3.35	+22 12 21.1	+7.3	1.475306	6 4	8 13
	20	5 44 48.94	3.94	22 12 28.4	7.4	1.475805	5 56	8 13
	22	5 44 52.88	4.52	22 12 35.8	7.5	1.476303	5 48	8 13
	24	5 44 57.40	5.10	22 12 43.3	7.7	1.476799	5 40	8 13
	26	5 45 2.50	+ 5.67	22 12 51.0	+7.8	1.477293	5 32	8 13
	28	5 45 8.17	6.23	+22 12 58.8	8.0	1.477783	5 24	8 13
	30	5 45 14.40	6.79	22 13 6.8	8.1	1.478270	5 17	8 13
April	1	5 45 21.19	7.33	22 13 14.9	8.2	1.478752	5 9	8 13
	3	5 45 28.52	7.88	22 13 23.1	8.3	1.479230	5 1	8 13
	5	5 45 36.40	+ 8.41	22 13 31.4	+8.5	1.479702	4 53	8 13
	7	5 45 44.81	8.93	+22 13 39.9	8.5	1.480169	4 46	8 13
	9	5 45 53.74	9.45	22 13 48.4	8.6	1.480629	4 38	8 14
	11	5 46 3.19	9.95	22 13 57.0	8.6	1.481083	4 30	8 14
	13	5 46 13.14	10.46	22 14 5.6	8.7	1.481530	4 22	8 14
	15	5 46 23.60	+10.95	22 14 14.3	+8.7	1.481969	4 15	8 14
	17	5 46 34.55	11.43	+22 14 23.0	8.8	1.482400	4 7	8 14
	19	5 46 45.98	11.89	22 14 31.8	8.7	1.482822	3 59	8 14
	21	5 46 57.87	12.35	22 14 40.5	8.7	1.483236	3 52	8 14
	23	5 47 10.22	12.80	22 14 49.2	8.6	1.483640	3 44	8 14
	25	5 47 23.02	+13.22	22 14 57.8	+8.6	1.484034	3 36	8 14
	27	5 47 36.24	13.64	+22 15 6.4	8.6	1.484418	3 29	8 14
	29	5 47 49.88	14.04	22 15 15.0	8.5	1.484791	3 21	8 14
Mai	1	5 48 3.92	14.42	22 15 23.5	8.5	1.485153	3 13	8 14
	3	5 48 18.34	14.80	22 15 32.0	8.3	1.485505	3 6	8 14
	5	5 48 33.14	+15.16	22 15 40.3	+8.2	1.485845	2 58	8 14
	7	5 48 48.30	15.51	+22 15 48.5	8.1	1.486173	2 50	8 14
	9	5 49 3.81	15.85	22 15 56.6	8.0	1.486489	2 43	8 14
	11	5 49 19.66	16.18	22 16 4.6	7.8	1.486792	2 35	8 14
	13	5 49 35.84	16.48	22 16 12.4	7.7	1.487083	2 28	8 14
	15	5 49 52.32	+16.78	22 16 20.1	+7.5	1.487361	2 20	8 14
	17	5 50 9.10	17.05	+22 16 27.6	7.3	1.487626	2 12	8 14
	19	5 50 26.15	17.32	22 16 34.9	7.2	1.487877	2 5	8 14
	21	5 50 43.47	17.56	22 16 42.1	6.9	1.488114	1 57	8 14
	23	5 51 1.03	17.79	22 16 49.0	6.7	1.488337	1 50	8 14
	25	5 51 18.82	+18.00	22 16 55.7	+6.4	1.488546	1 42	8 14
	27	5 51 36.82	18.20	+22 17 2.1	6.3	1.488741	1 34	8 14
	29	5 51 55.02	18.38	22 17 8.4	6.1	1.488921	1 27	8 14
	31	5 52 13.40	18.54	22 17 14.5	5.8	1.489087	1 19	8 14
Juni	2	5 52 31.94	18.69	22 17 20.3	5.5	1.489238	1 12	8 14
	4	5 52 50.63		22 17 25.8		1.489374	1 4	8 14

Wahrer geocentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Juni 2	5 52 31.94	+18.69	+22 17 20.3	+5.5	1.489238	1 12	8 14
4	5 52 50.63	18.83	22 17 25.8	5.2	1.489374	1 4	8 14
6	5 53 9.46	18.95	22 17 31.0	5.0	1.489495	0 56	8 14
8	5 53 28.41	19.06	22 17 36.0	4.7	1.489602	0 49	8 14
10	5 53 47.47	+19.15	22 17 40.7	+4.5	1.489693	0 41	8 14
12	5 54 6.62	19.22	+22 17 45.2	4.2	1.489769	0 34	8 14
14	5 54 25.84	19.27	22 17 49.4	3.9	1.489830	0 26	8 14
16	5 54 45.11	19.31	22 17 53.3	3.6	1.489875	0 19	8 14
18	5 55 4.42	19.33	22 17 56.9	3.3	1.489905	0 11	8 14
20	5 55 23.75	+19.34	22 18 0.2	+3.0	1.489919	0 4	8 14
22	5 55 43.09	19.32	+22 18 3.2	2.7	1.489918	23 56	8 14
24	5 56 2.41	19.29	22 18 5.9	2.4	1.489902	23 48	8 14
26	5 56 21.70	19.25	22 18 8.3	2.2	1.489870	23 41	8 14
28	5 56 40.95	19.18	22 18 10.5	1.9	1.489823	23 33	8 14
30	5 57 0.13	+19.10	22 18 12.4	+1.5	1.489761	23 26	8 14
Juli 2	5 57 19.23	19.01	+22 18 13.9	1.2	1.489683	23 18	8 14
4	5 57 38.24	18.91	22 18 15.1	0.9	1.489591	23 11	8 14
6	5 57 57.15	18.79	22 18 16.0	0.7	1.489483	23 3	8 14
8	5 58 15.94	18.65	22 18 16.7	0.4	1.489360	22 55	8 14
10	5 58 34.59	+18.50	22 18 17.1	+0.1	1.489223	22 48	8 14
12	5 58 53.09	18.32	+22 18 17.2	−0.2	1.489071	22 40	8 14
14	5 59 11.41	18.13	22 18 17.0	0.5	1.488904	22 33	8 14
16	5 59 29.54	17.93	22 18 16.5	0.7	1.488723	22 25	8 14
18	5 59 47.47	17.71	22 18 15.8	1.0	1.488527	22 18	8 14
20	6 0 5.18	+17.47	22 18 14.8	−1.2	1.488317	22 10	8 14
22	6 0 22.65	17.22	+22 18 13.6	1.5	1.488093	22 2	8 14
24	6 0 39.87	16.96	22 18 12.1	1.7	1.487856	21 55	8 14
26	6 0 56.83	16.67	22 18 10.4	1.9	1.487605	21 47	8 14
28	6 1 13.50	16.38	22 18 8.5	2.2	1.487340	21 40	8 14
30	6 1 29.88	+16.07	22 18 6.3	−2.4	1.487063	21 32	8 14
Aug. 1	6 1 45.95	15.76	+22 18 3.9	2.6	1.486773	21 24	8 14
3	6 2 1.71	15.42	22 18 1.3	2.8	1.486471	21 17	8 14
5	6 2 17.13	15.08	22 17 58.5	3.0	1.486157	21 9	8 14
7	6 2 32.21	14.71	22 17 55.5	3.2	1.485830	21 1	8 14
9	6 2 46.92	+14.34	22 17 52.3	−3.3	1.485492	20 54	8 14
11	6 3 1.26	13.95	+22 17 49.0	3.5	1.485142	20 46	8 14
13	6 3 15.21	13.54	22 17 45.5	3.6	1.484781	20 38	8 14
15	6 3 28.75	13.12	22 17 41.9	3.8	1.484410	20 31	8 14
17	6 3 41.87	12.70	22 17 38.1	3.9	1.484028	20 23	8 14
19	6 3 54.57		22 17 34.2		1.483636	20 15	8 14

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Aug. 17	6 3 41.87	+12.70	+22 17 38.1	−3.9	1.484028	20 23	8 14
19	6 3 54.57	12.25	22 17 34.2	4.0	1.483636	20 15	8 14
21	6 4 6.82	11.80	22 17 30.2	4.1	1.483235	20 8	8 14
23	6 4 18.62	11.34	22 17 26.1	4.2	1.482824	20 0	8 14
25	6 4 29.96	+10.86	22 17 21.9	−4.3	1.482405	19 52	8 14
27	6 4 40.82	10.38	+22 17 17.6	4.4	1.481977	19 45	8 14
29	6 4 51.20	9.90	22 17 13.2	4.4	1.481541	19 37	8 14
31	6 5 1.10	9.40	22 17 8.8	4.5	1.481099	19 29	8 14
Sept. 2	6 5 10.50	8.88	22 17 4.3	4.5	1.480649	19 22	8 14
4	6 5 19.38	+ 8.36	22 16 59.8	−4.5	1.480193	19 14	8 14
6	6 5 27.74	7.84	+22 16 55.3	4.6	1.479730	19 6	8 14
8	6 5 35.58	7.30	22 16 50.7	4.5	1.479262	18 58	8 14
10	6 5 42.88	6.76	22 16 46.2	4.6	1.478789	18 51	8 14
12	6 5 49.64	6.20	22 16 41.6	4.6	1.478311	18 43	8 14
14	6 5 55.84	+ 5.65	22 16 37.0	−4.5	1.477829	18 35	8 14
16	6 6 1.49	5.08	+22 16 32.5	4.5	1.477343	18 27	8 14
18	6 6 6.57	4.51	22 16 28.0	4.4	1.476854	18 19	8 14
20	6 6 11.08	3.94	22 16 23.6	4.4	1.476363	18 12	8 14
22	6 6 15.02	3.37	22 16 19.2	4.3	1.475870	18 4	8 14
24	6 6 18.39	+ 2.79	22 16 14.9	−4.2	1.475376	17 56	8 14
26	6 6 21.18	2.21	+22 16 10.7	4.1	1.474881	17 48	8 14
28	6 6 23.39	1.63	22 16 6.6	4.1	1.474386	17 40	8 14
30	6 6 25.02	1.05	22 16 2.5	4.0	1.473891	17 32	8 14
Oct. 2	6 6 26.07	+ 0.47	22 15 58.5	3.9	1.473397	17 25	8 14
4	6 6 26.54	− 0.11	22 15 54.6	−3.8	1.472904	17 17	8 14
6	6 6 26.43	0.70	+22 15 50.8	3.7	1.472414	17 9	8 14
8	6 6 25.73	1.28	22 15 47.1	3.5	1.471926	17 1	8 14
10	6 6 24.45	1.87	22 15 43.6	3.4	1.471442	16 53	8 14
12	6 6 22.58	2.45	22 15 40.2	3.3	1.470961	16 45	8 14
14	6 6 20.13	− 3.02	22 15 36.9	−3.2	1.470485	16 37	8 14
16	6 6 17.11	3.58	+22 15 33.7	3.0	1.470015	16 29	8 14
18	6 6 13.53	4.15	22 15 30.7	2.9	1.469550	16 21	8 14
20	6 6 9.38	4.70	22 15 27.8	2.8	1.469092	16 13	8 14
22	6 6 4.68	5.25	22 15 25.0	2.7	1.468640	16 5	8 14
24	6 5 59.43	− 5.79	22 15 22.3	−2.5	1.468196	15 57	8 14
26	6 5 53.64	6.31	+22 15 19.8	2.3	1.467761	15 49	8 14
28	6 5 47.33	6.83	22 15 17.5	2.1	1.467334	15 41	8 14
30	6 5 40.50	7.34	22 15 15.4	2.0	1.466916	15 33	8 14
Nov. 1	6 5 33.16	7.85	22 15 13.4	2.0	1.466508	15 25	8 14
3	6 5 25.31		22 15 11.4		1.466111	15 17	8 14

Wahrer geocentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Nov. 1	6 5 33.16	− 7.85	+22 15 13.4	−2.0	1.466508	15 25	8 14
3	6 5 25.31	8.34	22 15 11.4	1.8	1.466111	15 17	8 14
5	6 5 16.97	8.81	22 15 9.6	1.6	1.465725	15 9	8 14
7	6 5 8.16	9.28	22 15 8.0	1.4	1.465350	15 1	8 14
9	6 4 58.88	− 9.73	22 15 6.6	−1.3	1.464987	14 53	8 14
11	6 4 49.15	10.16	+22 15 5.3	1.2	1.464637	14 45	8 14
13	6 4 38.99	10.59	22 15 4.1	1.0	1.464300	14 37	8 14
15	6 4 28.40	10.99	22 15 3.1	0.9	1.463977	14 29	8 14
17	6 4 17.41	11.36	22 15 2.2	0.8	1.463668	14 21	8 14
19	6 4 6.05	−11.73	22 15 1.4	−0.7	1.463373	14 13	8 14
21	6 3 54.32	12.07	+22 15 0.7	0.5	1.463093	14 5	8 14
23	6 3 42.25	12.40	22 15 0.2	0.4	1.462829	13 57	8 14
25	6 3 29.85	12.70	22 14 59.8	0.2	1.462581	13 49	8 14
27	6 3 17.15	12.99	22 14 59.6	−0.1	1.462349	13 41	8 14
29	6 3 4.16	−13.26	22 14 59.5	0.0	1.462133	13 33	8 14
Dec. 1	6 2 50.90	13.51	+22 14 59.5	0.0	1.461934	13 24	8 14
3	6 2 37.39	13.74	22 14 59.5	+0.2	1.461752	13 16	8 14
5	6 2 23.65	13.94	22 14 59.7	0.4	1.461588	13 8	8 14
7	6 2 9.71	14.12	22 15 0.1	0.4	1.461441	13 0	8 14
9	6 1 55.59	−14.28	22 15 0.5	+0.4	1.461312	12 52	8 14
11	6 1 41.31	14.42	+22 15 0.9	0.6	1.461201	12 44	8 14
13	6 1 26.89	14.52	22 15 1.5	0.8	1.461109	12 36	8 14
15	6 1 12.37	14.61	22 15 2.3	0.9	1.461036	12 28	8 14
17	6 0 57.76	14.66	22 15 3.2	1.0	1.460981	12 19	8 14
19	6 0 43.10	−14.70	22 15 4.2	+1.1	1.460945	12 11	8 14
21	6 0 28.40	14.71	+22 15 5.3	1.2	1.460928	12 3	8 14
23	6 0 13.69	14.70	22 15 6.5	1.3	1.460929	11 55	8 14
25	5 59 58.99	14.66	22 15 7.8	1.4	1.460949	11 47	8 14
27	5 59 44.33	14.61	22 15 9.2	1.5	1.460988	11 39	8 14
29	5 59 29.72	−14.53	22 15 10.7	+1.6	1.461045	11 31	8 14
31	5 59 15.19	14.42	+22 15 12.3	1.6	1.461121	11 23	8 14
33	5 59 0.77		22 15 13.9		1.461215	11 14	8 14

MERCUR 1901.

Mittlere Ekliptik und Aequinoctium 1900.0.

0h Mittl. Zeit	Log. Rad. v.	Länge in d. Bahn	Red. a. d. Ekl.	Breite	0h Mittl. Zeit	Log. Rad. v.	Länge in d. Bahn	Red. a. d. Ekl.	Breite
Jan. 4	9.6686	250° 39′	− 9″	−2° 47′	Juli 8	9.6624	275° 49′	−13″	−5° 15′
9	9.6678	264 26	−12	4 14	13	9.6497	290 25	−10	6 15
14	9.6605	278 30	−13	5 28	18	9.6303	306 7	− 5	6 52
19	9.6466	293 15	−10	6 24	23	9.6044	323 34	+ 3	6 58
24	9.6259	309 15	− 4	6 56	28	9.5728	343 30	+10	6 16
29	9.5988	327 6	+ 4	−6 54	Aug. 2	9.5384	6 45	+13	−4 32
Febr. 3	9.5664	347 35	+11	6 2	7	9.5073	33 52	+ 6	−1 36
8	9.5320	11 32	+12	4 4	12	9.4894	64 19	− 7	+2 4
13	9.5026	39 22	+ 3	−0 57	17	9.4923	95 53	−13	5 16
18	9.4882	70 15	− 9	+2 45	22	9.5148	125 36	− 5	6 52
23	9.4953	101 41	−12	+5 42	27	9.5476	151 39	+ 6	+6 47
28	9.5205	130 47	− 3	6 58	Sept. 1	9.5817	173 56	+12	5 36
März 5	9.5541	156 7	+ 8	6 37	6	9.6120	193 8	+12	3 55
10	9.5878	177 45	+13	5 19	11	9.6362	210 2	+ 7	2 3
15	9.6170	196 27	+11	3 34	16	9.6537	225 24	+ 1	+0 13
20	9.6400	213 1	+ 6	+1 42	21	9.6646	239 47	− 5	−1 32
25	9.6563	228 9	0	−0 7	26	9.6689	253 40	−10	3 7
30	9.6659	242 24	− 6	1 50	Oct. 1	9.6668	267 29	−13	4 32
April 4	9.6690	256 15	−11	3 24	6	9.6580	281 39	−12	5 42
9	9.6656	270 6	−13	4 46	11	9.6426	296 38	− 8	6 33
14	9.6556	284 23	−12	−5 53	16	9.6206	312 58	− 2	−6 59
19	9.6390	299 34	− 7	6 40	21	9.5921	331 19	+ 6	6 47
24	9.6157	316 14	0	7 0	26	9.5589	352 30	+12	5 42
29	9.5862	335 3	+ 8	6 40	31	9.5249	17 18	+11	3 29
Mai 4	9.5524	356 52	+13	5 23	Nov. 5	9.4979	45 55	+ 1	−0 9
9	9.5190	22 23	+10	−2 56	10	9.4879	77 11	−11	+3 30
14	9.4944	51 39	− 2	+0 33	15	9.4995	108 19	−11	6 8
19	9.4884	83 8	−12	4 6	20	9.5275	136 39	0	7 0
24	9.5038	113 54	− 9	6 26	25	9.5617	161 8	+10	6 24
29	9.5337	141 33	+ 2	6 59	30	9.5946	182 3	+13	4 57
Juni 3	9.5681	165 19	+11	+6 10	Dec. 5	9.6226	200 13	+10	+3 10
8	9.6003	185 39	+13	4 38	10	9.6441	216 26	+ 5	+1 18
13	9.6271	203 24	+ 9	2 49	15	9.6590	231 19	− 2	−0 31
18	9.6474	219 18	+ 3	+0 57	20	9.6672	245 27	− 8	2 12
23	9.6610	234 1	− 3	−0 50	25	9.6688	259 15	−12	3 43
28	9.6680	248 3	− 9	−2 30	30	9.6640	273 10	−13	−5 2
Juli 3	9.6684	261 51	−12	3 59	35	9.6526	287 36	−11	6 5
8	9.6624	275 49	−13	5 15	40	9.6345	303 4	− 6	6 47

$\Omega = 47^\circ\ 8'.7; \quad i = 7^\circ\ 0'.17; \quad m = \frac{1}{6000000}$

VENUS 1901.					ERDE 1901.	
Mittl. Ekliptik und Aequin. 1900.0.					Mittl. Aequ. 1900.0.	
0ʰ Mittl. Zeit	Log. Radius v.	Länge in der Bahn	Red. auf d. Eklipt.	Breite	Log. Radius vect.	Länge
		° ′	′	° ′		° ′
Jan. 9	9.8594	222 41.2	+2.8	+1 51.1	9.99270	108 31.2
19	9.8602	238 40.2	+1.7	0 59.9	9.99300	118 42.4
29	9.8610	254 35.8	+0.1	+0 4.2	9.99347	128 52.6
Febr. 8	9.8616	270 28.4	−1.5	−0 51.6	9.99416	139 0.8
18	9.8620	286 18.7	−2.6	1 43.4	9.99504	149 7.1
28	9.8623	302 7.5	−3.0	−2 27.3	9.99603	159 10.8
März 10	9.8623	317 55.8	−2.5	3 0.0	9.99716	169 11.2
20	9.8620	333 44.6	−1.2	3 19.1	9.99838	179 8.7
30	9.8616	349 34.7	+0.4	3 23.2	9.99961	189 2.8
April 9	9.8610	5 27.2	+1.9	3 11.7	0.00086	198 53.3
19	9.8603	21 22.6	+2.9	−2 45.5	0.00209	208 40.7
29	9.8595	37 21.4	+2.9	2 6.5	0.00322	218 24.8
Mai 9	9.8586	53 23.9	+2.1	1 17.5	0.00427	228 5.7
19	9.8579	69 30.0	+0.7	−0 22.3	0.00521	237 44.3
29	9.8572	85 39.2	−1.0	+0 34.9	0.00596	247 20.6
Juni 8	9.8567	101 51.1	−2.4	+1 29.5	0.00657	256 54.9
18	9.8564	118 4.8	−3.0	2 17.0	0.00699	266 28.1
28	9.8564	134 19.2	−2.7	2 53.7	0.00718	276 0.4
Juli 8	9.8565	150 33.4	−1.5	3 16.5	0.00720	285 32.2
18	9.8569	166 46.3	+0.1	3 23.6	0.00702	295 4.5
28	9.8575	182 57.0	+1.7	+3 14.5	0.00660	304 37.5
Aug. 7	9.8582	199 4.8	+2.8	2 50.1	0.00603	314 11.6
17	9.8590	215 9.1	+3.0	2 12.5	0.00528	323 47.9
27	9.8599	231 9.8	+2.3	1 24.8	0.00435	333 26.1
Sept. 6	9.8606	247 7.0	+0.9	+0 30.6	0.00332	343 6.9
16	9.8613	263 0.9	−0.8	−0 25.6	0.00219	352 50.9
26	9.8618	278 52.2	−2.2	1 19.8	0.00095	2 37.8
Oct. 6	9.8622	294 41.6	−2.9	2 7.9	9.99972	12 28.0
16	9.8623	310 30.1	−2.8	2 46.2	9.99848	22 22.0
26	9.8622	326 18.5	−1.9	3 12.0	9.99725	32 19.1
Nov. 5	9.8618	342 7.9	−0.4	−3 23.2	9.99614	42 19.3
15	9.8613	357 59.2	+1.2	3 19.0	9.99512	52 22.8
25	9.8606	13 53.2	+2.5	2 59.6	9.99422	62 28.8
Dec. 5	9.8598	29 50.4	+3.0	2 26.3	9.99353	72 36.9
15	9.8590	45 51.2	+2.6	1 41.5	9.99303	82 47.0
25	9.8582	61 55.6	+1.4	−0 48.7	9.99271	92 58.0
35	9.8575	78 3.4	−0.2	+0 8.1	9.99266	103 9.5

$\Omega = 75^\circ\ 46'.6\ ;\quad i = 3^\circ\ 23'.6\ ;\quad m = \frac{1}{408000}$

$m = \frac{1}{329390}$

MARS 1901.

Mittlere Ekliptik und Aequinoctium 1900.0.

0^h Mittl. Zeit		Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite
Jan.	9	0.21880	133° 43'.6	— 0'.2	+ 1° 50'.6
	19	0.21987	138 8.3	0.0	1 51.0
	29	0.22069	142 31.8	+ 0.1	1 50.8
Febr.	8	0.22126	146 54.4	0.3	1 49.9
	18	0.22157	151 16.6	0.4	1 48.4
	28	0.22162	155 38.5	+ 0.5	+ 1 46.2
März	10	0.22140	160 0.5	0.6	1 43.5
	20	0.22093	164 22.9	0.7	1 40.1
	30	0.22021	168 46.1	0.8	1 36.1
April	9	0.21922	173 10.3	0.8	1 31.6
	19	0.21799	177 35.8	+ 0.9	+ 1 26.5
	29	0.21650	182 3.1	0.9	1 20.8
Mai	9	0.21478	186 32.3	0.9	1 14.6
	19	0.21281	191 3.8	0.9	1 7.9
	29	0.21061	195 37.9	0.8	1 0.7
Juni	8	0.20819	200 14.9	+ 0.8	+ 0 53.0
	18	0.20556	204 55.2	0.7	0 44.9
	28	0.20273	209 39.0	0.6	0 36.4
Juli	8	0.19971	214 26.7	0.4	0 27.5
	18	0.19652	219 18.6	0.3	0 18.3
	28	0.19317	224 14.8	+ 0.1	+ 0 8.8
Aug.	7	0.18969	229 15.8	0.0	— 0 0.9
	17	0.18609	234 21.7	— 0.2	0 10.8
	27	0.18241	239 32.8	0.3	0 20.7
Sept.	6	0.17867	244 49.3	0.5	0 30.7
	16	0.17490	250 11.3	— 0.6	— 0 40.5
	26	0.17114	255 38.9	0.7	0 50.2
Oct.	6	0.16741	261 12.2	0.8	0 59.5
	16	0.16377	266 51.3	0.9	1 8.4
	26	0.16024	272 36.0	0.9	1 16.8
Nov.	5	0.15688	278 26.2	— 0.9	— 1 24.6
	15	0.15372	284 21.7	0.8	1 31.6
	25	0.15081	290 22.2	0.7	1 37.6
Dec.	5	0.14818	296 27.4	0.6	1 42.7
	15	0.14588	302 36.7	0.5	1 46.6
	25	0.14395	308 49.6	— 0.3	— 1 49.3
	35	0.14241	315 5.6	— 0.1	1 50.8

$\Omega = 48^\circ\ 47'.0$; $i = 1^\circ\ 51'.0$ $m = \frac{1}{3093500}$

JUPITER 1901.

Mittlere Ekliptik und Aequinoctium 1900.0.

0ʰ Mittl. Zeit		Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
Jan.	9	0.721915	264° 3′ 9.4″	+13.8″	+0° 20′ 50.0″	−0.3″
	19	0.721627	264 51 42.2	13.1	0 19 45.7	0.4
	29	0.721337	265 40 18.9	12.5	0 18 41.1	0.4
Febr.	8	0.721046	266 28 59.5	11.8	0 17 36.1	0.5
	18	0.720754	267 17 44.0	11.1	0 16 30.8	0.5
	28	0.720461	268 6 32.5	+10.4	+0 15 25.3	−0.6
März	10	0.720167	268 55 24.9	9.7	0 14 19.5	0.6
	20	0.719871	269 44 21.4	8.9	0 13 13.4	0.6
	30	0.719574	270 33 21.9	8.2	0 12 7.1	0.7
April	9	0.719276	271 22 26.4	7.5	0 11 0.6	0.7
	19	0.718977	272 11 34.9	+ 6.8	+0 9 53.8	−0.8
	29	0.718677	273 0 47.5	6.0	0 8 46.8	0.8
Mai	9	0.718376	273 50 4.2	5.3	0 7 39.6	0.8
	19	0.718074	274 39 25.1	4.5	0 6 32.2	0.9
	29	0.717772	275 28 50.0	3.7	0 5 24.6	0.9
Juni	8	0.717469	276 18 19.1	+ 2.9	+0 4 16.9	−0.9
	18	0.717165	277 7 52.3	2.2	0 3 9.0	1.0
	28	0.716861	277 57 29.7	1.4	0 2 1.0	1.0
Juli	8	0.716556	278 47 11.3	+ 0.6	+0 0 52.9	1.0
	18	0.716251	279 36 57.1	− 0.2	−0 0 15.3	1.1
	28	0.715945	280 26 47.1	− 0.9	−0 1 23.6	−1.1
Aug.	7	0.715639	281 16 41.3	1.7	0 2 32.0	1.1
	17	0.715333	282 6 39.7	2.5	0 3 40.5	1.2
	27	0.715026	282 56 42.4	3.3	0 4 49.0	1.2
Sept.	6	0.714720	283 46 49.3	4.0	0 5 57.5	1.2
	16	0.714413	284 37 0.5	− 4.8	−0 7 6.1	−1.3
	26	0.714106	285 27 15.9	5.6	0 8 14.7	1.3
Oct.	6	0.713799	286 17 35.6	6.4	0 9 23.3	1.3
	16	0.713492	287 7 59.5	7.1	0 10 31.9	1.4
	26	0.713186	287 58 27.7	7.9	0 11 40.4	1.4
Nov.	5	0.712880	288 49 0.2	− 8.6	−0 12 48.8	−1.4
	15	0.712575	289 39 37.0	9.4	0 13 57.2	1.5
	25	0.712269	290 30 18.0	10.1	0 15 5.5	1.5
Dec.	5	0.711964	291 21 3.3	10.9	0 16 13.7	1.5
	15	0.711660	292 11 52.9	11.6	0 17 21.8	1.6
	25	0.711356	293 2 46.7	−12.3	−0 18 29.7	−1.6
	35	0.711053	293 53 44.8	13.0	0 19 37.5	1.6

$\Omega = 99^\circ\ 26'\ 34''.2; \quad i = 1^\circ\ 18'\ 31''.7; \quad m = \frac{1}{1047.355}$

Mittlere Ekliptik und Aequinoctium 1900.0.

SATURN 1901.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1900 Dec. 30	1.002917	277° 25′ 0.0″	+ 49.8″	+ 0° 39′ 38.3″	+ 0.8″
1901 Febr. 8	1.002861	278 37 9.9	46.3	0 36 36.4	1.0
März 20	1.002793	279 49 21.0	42.6	0 33 33.5	1.2
April 29	1.002714	281 1 33.6	38.9	0 30 29.6	1.4
Juni 8	1.002623	282 13 47.8	35.1	0 27 24.9	1.6
Juli 18	1.002520	283 26 4.0	31.3	0 24 19.4	1.8
Aug. 27	1.002405	284 38 22.4	27.3	0 21 13.1	2.0
Oct. 6	1.002279	285 50 43.2	23.4	0 18 6.1	2.2
Nov. 15	1.002141	287 3 6.6	19.4	0 14 58.6	2.4
Dec. 25	1.001992	288 15 32.9	15.3	0 11 50.6	2.6
65	1.001832	289 28 2.2	+ 11.2	+ 0 8 42.1	+ 2.7

$\Omega = 112° 47' 10''.9;\quad i = 2° 29' 32''.6;\quad m = \frac{1}{3501.6}$

URANUS 1901.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1900 Dec. 30	1.280112	252° 59′ 59.8″	+ 0.2″	+ 0° 0′ 27.5″	+ 4.0″
1901 Febr. 8	1.280278	253 28 34.3	0.0	+ 0 0 4.3	4.0
März 20	1.280444	253 57 7.4	− 0.1	− 0 0 18.8	3.9
April 29	1.280609	254 25 39.1	0.3	0 0 42.0	3.9
Juni 8	1.280774	254 54 9.4	0.5	0 1 5.1	3.8
Juli 18	1.280939	255 22 38.4	0.6	0 1 28.1	3.8
Aug. 27	1.281104	255 51 6.1	0.8	0 1 51.2	3.7
Oct. 6	1.281268	256 19 32.3	0.9	0 2 14.2	3.7
Nov. 15	1.281432	256 47 57.2	1.1	0 2 37.2	3.7
Dec. 25	1.281596	257 16 20.6	1.2	0 3 0.2	3.6
65	1.281760	257 44 42.7	− 1.4	− 0 3 23.1	+ 3.6

$\Omega = 73° 29';\quad i = 0° 46' 22'';\quad m = \frac{1}{22869}$

NEPTUN 1901.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1900 Dec. 30	1.475347	87° 52′ 34.7″	+ 49.6″	− 1° 12′ 32.6″	− 1.3″
1901 Febr. 8	1.475358	88 7 4.4	49.5	1 12 12.8	1.3
März 20	1.475369	88 21 34.1	49.5	1 11 52.9	1.3
April 29	1.475381	88 36 3.8	49.5	1 11 32.9	1.3
Juni 8	1.475393	88 50 33.4	49.4	1 11 12.8	1.4
Juli 18	1.475405	89 5 3.0	49.4	1 10 52.6	1.4
Aug. 27	1.475417	89 19 32.5	49.3	1 10 32.4	1.4
Oct. 6	1.475430	89 34 2.1	49.3	1 10 12.1	1.4
Nov. 15	1.475443	89 48 31.6	49.2	1 9 51.7	1.4
Dec. 25	1.475457	90 3 1.1	49.1	1 9 31.2	1.3
65	1.475470	90 17 30.6	+ 49.1	− 1 9 10.6	− 1.3

$\Omega = 130° 40';\quad i = 1° 46' 46'';\quad m = \frac{1}{19700}$

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ' "	"	
α Androm.	1	2.0	0 3 16.105	+ 3.0925	+ 95	+28 32 38.10	+19.895	−156
β Cassiop.	2	2.1	0 3 53.453	+ 3.1755	+ 661	+58 36 13.13	+19.859	−190
[22 Androm.]	337	5.3	0 5 10.406	+ 3.1050	+ 15	+45 31 16.00	+20.030	− 16
γ Pegasi	3	2.6	0 8 8.200	+ 3.0844	− 7	+14 37 59.33	+20.027	− 13
[Br. 6]	338	6.4	0 10 35.759	+ 3.3091	− 192	+76 24 1.78	+20.010	− 21
ι Ceti	4	3.3	0 14 22.987	+ 3.0557	− 32	− 9 22 22.29	+19.981	− 32
12 Ceti	339	6.0	0 24 59.172	+ 3.0609	− 3	− 4 30 15.72	+19.924	− 9
[κ Cassiop.]	5	4.3	0 27 22.140	+ 3.3781	+ 9	+62 23 6.82	+19.887	− 22
ζ Cassiop.	6	4.0	0 31 27.147	+ 3.3204	+ 18	+53 21 7.43	+19.852	− 12
π Androm.	7	4.0	0 31 35.433	+ 3.1924	− 4	+33 10 27.64	+19.862	0
[ε Androm.]	8	4.1	0 33 19.322	+ 3.1607	− 184	+28 46 27.17	+19.590	−251
δ Androm.	9	3.3	0 34 1.953	+ 3.1984	+ 100	+30 19 9.79	+19.754	− 77
α Cassiop.[1]	10	var.	0 34 53.061	+ 3.3767	+ 35	+55 59 39.77	+19.781	− 38
β Ceti	540	2.0	0 38 37.213	+ 3.0122	+ 147	−18 31 48.72	+19.802	+ 34
21 Cassiop.	340	6.0	0 39 6.096	+ 3.8795	− 88	+74 26 48.78	+19.725	− 36
ο Cassiop.	341	5.0	0 39 12.265	+ 3.3229	− 3	+47 44 32.98	+19.743	− 16
ζ Androm.	11	4.1	0 42 5.322	+ 3.1709	− 91	+23 43 43.33	+19.643	− 72
[η Cassiop.]	12	3.8	0 43 6.136	+ 3.5959	+1351	+57 17 28.27	+19.219	−482
[δ Piscium]	342	4.3	0 43 32.670	+ 3.1075	+ 35	+ 7 2 46.48	+19.654	− 37
[Br. 82]	343	6.0	0 44 42.656	+ 3.5943	− 30	+63 42 30.50	+19.653	− 19
γ Cassiop.	13	2.0	0 50 43.674	+ 3.5860	+ 13	+60 10 50.03	+19.547	− 15
μ Androm.	14	4.0	0 51 15.439	+ 3.3181	+ 141	+37 57 45.15	+19.602	+ 49
43 H. Ceph.	344	4.3	0 55 8.814	+ 7.4055	+ 699	+85 43 34.28	+19.464	− 11
ε Piscium	15	4.0	0 57 48.221	+ 3.1088	− 70	+ 7 21 26.27	+19.457	+ 39
[η Ceti]	541	3.1	1 3 36.531	+ 3.0160	+ 125	−10 42 25.55	+19.161	−124
[44 H. Ceph.]	345	5.6	1 3 42.235	+ 5.0162	+ 302	+79 8 48.73	+19.267	− 15
β Androm.	16	2.3	1 4 11.219	+ 3.3468	+ 144	+35 5 45.47	+19.188	− 84
[τ Piscium]	17	4.0	1 6 12.356	+ 3.2933	+ 45	+29 33 51.47	+19.210	− 12
υ Piscium	18	4.1	1 14 1.346	+ 3.2864	− 2	+26 44 37.61	+19.013	− 3
[ψ Cassiop.]	346	5.0	1 18 55.915	+ 4.1795	+ 112	+67 36 47.36	+18.883	+ 9
θ Ceti	21	3.0	1 19 4.472	+ 2.9968	− 68	− 8 41 38.79	+18.675	−196
δ Cassiop.	20	2.8	1 19 20.084	+ 3.8878	+ 385	+59 43 15.85	+18.828	− 36
α Ursae min.	19	2.0	1 22 58.771	+25.4246	+1309	+88 46 45.39	+18.750	− 2
η Piscium	22	3.6	1 26 11.018	+ 3.2026	− 2	+14 50 7.66	+18.648	− 3
40 Cassiop.	347	5.6	1 30 35.593	+ 4.7040	− 50	+72 32 7.87	+18.489	− 16

[1]) Gröfse zwischen 2.2 u. 2.8.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
υ Persei	23	3.6	1h 31m 54s.696	+3s.6594	+ 45	+48° 7′ 36″.31	+18″.350	−111
43 Cassiop.	348	6.0	1 35 0.026	+4.3820	+ 67	+67 32 32.44	+18.349	− 5
[ν Piscium]	349	4.6	1 36 16.653	+3.1168	− 35	+ 4 59 12.14	+18.313	+ 5
φ Persei	24	4.0	1 37 27.063	+3.7355	+ 11	+50 11 23.84	+18.241	− 25
τ Ceti	542	3.3	1 39 28.060	+2.7842	−1223	−16 27 32.23	+19.048	+857
ο Piscium	25	4.1	1 40 9.826	+3.1617	+ 29	+ 8 39 34.37	+18.222	+ 54
Lac. ε Sculpt.	543	5.1	1 41 0.452	+2.8080	+ 79	−25 32 51.37	+18.070	− 66
ζ Ceti	544	3.0	1 46 34.364	+2.9584	+ 3	−10 49 26.70	+17.895	− 28
ε Cassiop.	26	3.3	1 47 15.986	+4.2692	+ 35	+63 10 57.44	+17.876	− 20
α Triang.	27	3.6	1 47 26.167	+3.4093	+ 4	+29 5 47.96	+17.661	−228
[γ Arietis] [1]	28	4	1 48 5.732	+3.2831	+ 35	+18 48 30.65	+17.777	− 86
ξ Piscium	29	4.0	1 48 25.752	+3.1019	+ 4	+ 2 41 55.79	+17.870	+ 20
β Arietis	30	2.8	1 49 10.119	+3.3048	+ 50	+20 19 27.16	+17.719	−102
50 Cassiop.	31	4.0	1 54 58.220	+5.0335	− 111	+71 56 32.36	+17.598	+ 17
υ Ceti	545	4.0	1 55 20.366	+2.8245	+ 65	−21 33 27.79	+17.548	− 18
γ Androm.	32	2.4	1 57 49.117	+3.6638	+ 21	+41 51 17.04	+17.410	− 51
α Arietis	33	2.0	2 1 35.417	+3.3725	+ 127	+22 59 40.18	+17.162	−134
β Triang.	34	3.0	2 3 39.027	+3.5568	+ 118	+34 31 8.86	+17.171	− 33
55 Cassiop.	350	6.1	2 6 42.388	+4.6519	− 20	+66 3 37.60	+17.060	− 4
[6 Persei]	351	6.0	2 7 0.981	+3.9640	+ 348	+50 36 21.42	+16.878	−174
Lac. μ Forn.	546	5.2	2 8 32.824	+2.6411	− 11	−31 11 18.75	+16.970	− 10
[γ Triang.]	352	4.3	2 11 25.567	+3.5532	+ 24	+33 23 22.27	+16.810	− 34
67 Ceti	353	6.0	2 12 2.655	+2.9885	+ 36	− 6 52 41.70	+16.707	−109
[ϑ Arietis]	354	5.6	2 12 36.997	+3.3285	− 23	+19 26 35.84	+16.798	+ 10
ο Ceti [2]	35	var.	2 14 20.613	+3.0263	− 22	− 3 25 38.15	+16.475	−230
[ι Cass.] [3]	36	4.1	2 20 54.087	+4.8810	− 46	+66 57 26.54	+16.380	0
ξ² Ceti	37	4.0	2 22 53.619	+3.1837	+ 11	+ 8 0 59.16	+16.278	− 1
36 H. Cass.	38	5.6	2 28 36.727	+5.6111	− 45	+72 23 7.38	+15.993	+ 11
ν Arietis	355	5.6	2 33 11.552	+3.3977	− 19	+21 32 0.56	+15.727	− 11
δ Ceti	39	4.0	2 34 24.439	+3.0718	+ 4	− 0 5 55.13	+15.664	− 7
[Br. 366]	356	6.4	2 36 18.047	+5.0977	+ 2	+67 24 14.79	+15.527	− 39
ϑ Persei	40	4.0	2 37 26.047	+4.0744	+ 330	+48 48 35.21	+15.412	− 93
[35 Arietis]	357	5.0	2 37 38.362	+3.5086	− 19	+27 17 9.37	+15.483	− 9
[γ Ceti] [4]	41	3.3	2 38 10.150	+3.1033	− 114	+ 2 49 6.81	+15.307	−156
π Ceti	547	4.0	2 39 24.581	+2.8520	− 28	−14 16 40.49	+15.385	− 9

[1] 4m.3 u. 4m.4. Dupl. 8″.6; AR. der Mitte, Decl. des südl. Sterns.

[2] Gröſse zwischen 1.7 u. 9. 9m folgt 8s im Parallel.

[3] 7m 2″; 8m 7″.5.

[4] 7m 3″.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
μ Ceti	42	4.0	2ʰ 39ᵐ 35ˢ.260	+3ˢ.2357	+ 164	+ 9° 41′ 46″.70	+15″.364	— 20
[η Persei]	43	3.6	2 43 28.265	+4.3470	+ 23	+55 29 4.17	+15.131	— 34
41 Arietis	44	3.8	2 44 9.225	+3.5203	+ 32	+26 51 9.12	+15.006	—119
τ² Eridani	548	4.6	2 46 32.835	+2.7182	— 62	—21 24 44.24	+14.963	— 23
τ Persei	45	4.0	2 47 14.037	+4.2264	— 18	+52 21 26.66	+14.937	— 9
η Eridani	46	3.0	2 51 35.405	+2.9276	+ 37	— 9 17 31.47	+14.484	—206
47 H. Ceph.	358	6.0	2 52 54.550	+7.7840	— 113	+79 1 40.21	+14.626	+ 15
α Ceti	47	2.3	2 57 6.133	+3.1303	— 29	+ 3 42 5.20	+14.284	— 73
γ Persei	48	3.0	2 57 37.304	+4.3180	— 15	+53 7 8.16	+14.323	— 2
ρ Persei ¹)	49	var.	2 58 49.762	+3.8299	+ 103	+38 27 24.79	+14.163	— 88
β Persei ²)	50	var.	3 1 43.417	+3.8866	— 17	+40 34 27.80	+14.082	+ 10
[ι Persei]	51	4.0	3 1 55.090	+4.3053	+1273	+49 14 7.12	+14.001	— 65
δ Arietis	359	4.1	3 5 57.952	+3.4228	+ 95	+19 21 8.63	+13.807	+ 2
48 H. Ceph.	360	6.1	3 7 44.227	+7.4347	+ 29	+77 22 16.78	+13.647	— 45
12 Eridani ³)	549	3.3	3 7 51.931	+2.5471	+ 245	—29 22 38.26	+14.341	+656
α Persei	52	2.0	3 17 15.067	+4.2615	+ 15	+49 30 32.06	+13.040	— 33
ο Tauri	53	3.6	3 19 29.064	+3.2236	— 52	+ 8 40 50.10	+12.855	— 68
2 H.Camel.	361	4.6	3 21 2.837	+4.8232	— 14	+59 35 44.15	+12.830	+ 12
[ξ Tauri]	54	3.6	3 21 48.153	+3.2464	+ 32	+ 9 23 14.72	+12.719	— 49
[σ Persei] ⁴)	362	4.8	3 23 35.494	+4.2110	0	+47 39 13.01	+12.666	+ 19
f Tauri	55	4.0	3 25 24.325	+3.3059	— 2	+12 35 51.17	+12.534	+ 11
ε Eridani	56	3.0	3 28 15.900	+2.8234	— 675	— 9 47 36.60	+12.336	+ 11
[Gr. 716]	363	6.0	3 33 33.557	+5.1656	— 38	+62 53 46.70	+12.016	+ 58
δ Persei	57	3.1	3 35 52.352	+4.2525	+ 12	+47 28 15.98	+11.759	— 37
[ο Persei] ⁵)	58	4.0	3 38 6.452	+3.7508	— 16	+31 58 28.99	+11.626	— 10
ν Persei	59	4.0	3 38 27.955	+4.0617	— 15	+42 15 56.98	+11.600	— 12
[δ Eridani]	550	3.0	3 38 30.277	+2.8704	— 81	—10 5 55.09	+12.351	+743
[17 Tauri]	60	4.1	3 38 59.663	+3.5542	— 1	+23 48 8.02	+11.537	— 36
5 H.Camel.	364	4.3	3 39 53.816	+6.2553	— 17	+71 1 38.49	+11.458	— 51
η Tauri	61	3.0	3 41 35.831	+3.5576	— 4	+23 47 57.05	+11.347	— 40
τ⁶ Eridani	551	4.0	3 42 35.273	+2.5793	— 127	—23 32 32.95	+10.784	—530
[27 Tauri]	62	4.0	3 43 16.402	+3.5591	— 3	+23 45 2.52	+11.219	— 47
ζ Persei	63	3.0	3 47 54.411	+3.7617	— 3	+31 35 23.28	+10.926	— 2
9 H.Camel.	365	6.0	3 48 41.461	+5.0830	— 13	+60 49 9.15	+10.869	— 1
ε Persei	64	3.3	3 51 12.447	+4.0132	+ 4	+39 43 26.49	+10.664	— 20

¹) Gröfse zwischen 3.4 u. 4.2.
²) Gröfse zwischen 2.2 u. 3.7.
³) 7.8ᵐ 3″.
⁴) 6ᵐ folgt 2ˢ, 6′.5 nördlich.
⁵) 9ᵐ 1″.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
ξ Persei	65	4.0	3 52 32.339	+ 3.8821	− 6	+35 30 23.03	+10.574	− 13
γ Eridani	552	3.0	3 53 24.567	+ 2.7963	+ 29	−13 47 24.48	+10.416	−106
λ Tauri[1]	66	var.	3 55 11.640	+ 3.3188	− 14	+12 12 38.43	+10.379	− 9
ν Tauri	67	4.0	3 57 53.349	+ 3.1881	+ 1	+ 5 42 52.69	+10.177	− 9
c Persei	69	4.0	4 1 28.257	+ 4.3394	+ 9	+47 26 53.79	+ 9.882	− 33
Gr. 750	68	6.4	4 5 22.774	+17.3248	+ 25	+85 17 37.82	+ 9.631	+ 15
ο¹ Eridani	366	4.4	4 7 1.941	+ 2.9255	− 6	− 7 5 44.20	+ 9.573	+ 85
[54 Persei]	367	5.8	4 13 58.797	+ 3.8866	− 31	+34 19 40.00	+ 8.949	+ 1
[γ Tauri]	70	4.0	4 14 9.487	+ 3.4095	+ 73	+15 23 18.74	+ 8.905	− 30
δ Tauri	71	4.0	4 17 13.439	+ 3.4549	+ 66	+17 18 37.61	+ 8.669	− 25
ε Tauri	72	3.6	4 22 50.065	+ 3.4984	+ 70	+18 57 39.47	+ 8.222	− 28
[1 Camel. seq.]	368	6.3	4 24 11.260	+ 4.7389	+ 33	+53 41 45.00	+ 8.131	− 9
α Tauri	73	1	4 30 14.294	+ 3.4378	+ 35	+16 18 37.31	+ 7.470	−184
ν Eridani	74	3.3	4 31 22.231	+ 2.9935	− 23	− 3 33 16.89	+ 7.572	+ 9
53 Eridani	553	4.0	4 33 38.671	+ 2.7436	− 77	−14 29 51.62	+ 7.216	−162
Gr. 848	369	6.1	4 35 30.255	+ 7.9964	+ 95	+75 45 40.91	+ 7.094	−132
τ Tauri	370	4.3	4 36 18.084	+ 3.5958	− 10	+22 46 1.94	+ 7.152	− 9
4 Camelop.	371	5.8	4 39 45.152	+ 4.9789	+ 30	+56 34 53.15	+ 6.723	−155
[μ Eridani]	75	3.6	4 40 33.063	+ 2.9971	− 2	− 3 26 9.58	+ 6.811	− 2
9 Camelop.	76	4.3	4 44 12.193	+ 5.9334	− 27	+66 10 28.92	+ 6.510	− 1
[π⁴ Orionis]	77	4.3	4 45 55.935	+ 3.1924	− 10	+ 5 26 9.07	+ 6.371	+ 2
π⁵ Orionis	78	4.0	4 49 5.643	+ 3.1230	− 4	+ 2 16 42.86	+ 6.099	− 7
ι Aurigae	79	3.0	4 50 32.738	+ 3.9023	+ 6	+33 0 34.46	+ 5.981	− 3
10 Camelop.	80	4.0	4 54 36.596	+ 5.3215	0	+60 17 51.70	+ 5.630	− 14
ε Aurigae[2]	81	var.	4 54 51.749	+ 4.2964	− 16	+43 40 36.95	+ 5.609	− 14
[ζ Aurigae]	82	4.0	4 55 33.387	+ 4.1866	+ 1	+40 55 53.85	+ 5.558	− 6
ι Tauri	372	5.0	4 57 10.623	+ 3.5824	+ 40	+21 26 55.17	+ 5.388	− 40
η Aurigae	83	3.6	4 59 34.261	+ 4.2009	+ 22	+41 6 2.94	+ 5.165	− 61
ε Leporis	554	3.5	5 1 16.169	+ 2.5375	+ 4	−22 30 14.95	+ 5.014	− 68
β Eridani	84	3.0	5 2 58.933	+ 2.9480	− 66	− 5 12 51.15	+ 4.878	− 59
[λ Eridani]	85	4.0	5 4 24.494	+ 2.8698	− 2	− 8 52 51.01	+ 4.817	+ 1
19 H. Camel.	373	5.0	5 6 13.782	+ 9.7986	−371	+79 7 3.80	+ 4.807	+144
μ Aurigae	374	5.6	5 6 39.084	+ 4.0979	− 47	+38 22 2.45	+ 4.554	− 71
α Aurigae	86	1	5 9 22.468	+ 4.4267	+ 78	+45 53 50.71	+ 3.969	−424
β Orionis	87	1	5 9 46.744	+ 2.8809	− 12	− 8 18 57.50	+ 4.364	+ 5

[1]) Gröfse zwischen 3.4 u. 4.2.

[2]) Gröfse zwischen 3.0 u. 4.5.

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			h m s	s		° ′ ″	″	
[τ Orionis]	88	4.0	5 12 47.871	+2.9102	− 31	− 6 57 4.79	+4.102	+ 2
[η Orion. m.][1]	89	3.3	5 19 29.887	+3.0141	− 15	− 2 29 17.16	+3.535	+ 10
γ Orionis	91	2.0	5 19 49.190	+3.2153	− 19	+ 6 15 36.19	+3.482	− 15
β Tauri	90	2.0	5 20 1.968	+3.7901	+ 13	+28 31 26.09	+3.299	−180
17 Camelop.	375	6.0	5 20 49.061	+5.6550	− 15	+62 59 4.77	+3.405	− 6
[β Leporis]	555	3.2	5 24 0.173	+2.5687	− 15	−20 50 17.97	+3.057	− 79
Gr. 966	92	6.5	5 26 29.106	+8.0014	+ 3	+74 58 41.59	+2.898	− 24
δ Orionis[2]	93	var.	5 26 56.865	+3.0628	− 14	− 0 22 20.72	+2.876	− 5
α Leporis	556	3.0	5 28 21.780	+2.6442	− 11	−17 53 35.26	+2.769	+ 10
[φ¹ Orionis]	376	5.0	5 29 23.072	+3.2909	− 18	+ 9 25 21.23	+2.669	− 2
[θ¹ Orionis][3]	94	5.1	5 30 24.584	+2.9435	− 27	− 5 27 16.91	+2.617	+ 35
[θ² Orionis]	95	5.0	5 30 31.179	+2.9455	− 1	− 5 28 51.82	+2.586	+ 14
ι Orionis	96	3.1	5 30 35.387	+2.9333	− 7	− 5 58 29.22	+2.573	+ 7
ε Orionis	97	2.0	5 31 11.315	+3.0416	− 18	− 1 15 54.02	+2.520	+ 6
ζ Tauri	98	3.3	5 31 43.646	+3.5836	− 6	+21 4 56.04	+2.443	− 24
[σ Orionis]	99	3.7	5 33 46.498	+3.0096	− 16	− 2 39 25.86	+2.291	+ 2
ο Aurigae	377	5.8	5 38 13.769	+4.6433	− 34	+49 46 58.41	+1.874	− 27
[γ Leporis]	557	3.9	5 40 20.085	+2.4987	−230	−22 28 50.34	+1.351	−366
[130 Tauri]	378	6.0	5 41 39.779	+3.4952	− 26	+17 41 32.38	+1.614	+ 12
ζ Leporis	558	3.6	5 42 28.155	+2.7173	− 18	−14 51 31.47	+1.541	+ 9
κ Orionis	100	2.6	5 43 3.595	+2.8430	− 17	− 9 42 16.88	+1.484	+ 4
[ν Aurigae]	101	4.0	5 44 37.562	+4.1530	− 45	+39 7 11.00	+1.375	+ 31
[δ Leporis]	559	4.0	5 47 3.830	+2.5793	+158	−20 53 15.88	+0.478	−654
α Orionis[4]	102	var.	5 49 48.678	+3.2467	+ 8	+ 7 23 19.69	+0.915	+ 24
δ Aurigae	379	4.1	5 51 22.475	+4.9379	+ 76	+54 16 38.28	+0.639	−116
[η Leporis]	560	3.6	5 51 53.690	+2.7306	− 44	−14 11 8.45	+0.855	+146
β Aurigae	103	2.0	5 52 15.994	+4.3998	− 60	+44 56 14.87	+0.665	− 11
θ Aurigae	104	3.0	5 52 58.238	+4.0909	+ 37	+37 12 21.02	+0.536	− 78
[66 Orionis]	380	6.0	5 59 44.512	+3.1675	− 26	+ 4 9 51.50	+0.010	− 13
ν Orionis	382	4.6	6 1 55.156	+3.4252	− 3	+14 46 49.71	−0.182	− 13
[36 Camelop.]	381	5.8	6 2 53.202	+6.0295	− 90	+65 44 17.29	−0.300	− 46
22 H. Camel.	383	4.6	6 7 56.228	+6.6178	− 10	+69 21 17.79	−0.805	−111
η Geminor.[5]	105	var.	6 8 54.115	+3.6221	− 50	+22 32 8.60	−0.782	− 3
[2 Lyncis]	384	4.6	6 10 53.379	+5.2992	+ 1	+59 2 49.38	−0.911	+ 42
μ Geminor.	106	3.0	6 16 58.282	+3.6304	+ 37	+22 33 52.71	−1.584	−101

1) 4^m und 5^m, 1″.
2) Gröfse zwischen 2.2 u. 2.7.
3) Der dritte, südlichste Stern im Trapez.
4) Gröfse zwischen 1 u. 1.4.
5) Gröfse zwischen 3.2 u. 4.2.

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			h m s	s		° ′ ″	″	
ψ^1 Aurigae	385	5.1	6 17 16.485	+ 4.6247	+ 1	+49 20 18.81	−1.520	− 10
β Canis maj.	561	2.6	6 18 20.370	+ 2.6407	− 15	−17 54 24.17	−1.600	+ 3
8 Monocer.	386	4.7	6 18 31.357	+ 3.1798	− 12	+ 4 38 35.46	−1.609	+ 10
10 Monocer.	562	5.0	6 23 4.236	+ 2.9622	− 11	− 4 42 3.45	−2.002	+ 14
8 Lyncis	388	6.0	6 28 38.581	+ 5.4921	−308	+61 34 6.55	−2.773	− 271
23 H. Camel.	387	5.3	6 29 20.668	+10.3216	−263	+79 40 17.89	−3.219	− 657
ξ^2 Canis maj.	563	5.1	6 30 54.449	+ 2.5154	+ 18	−22 53 10.42	−2.665	+ 31
51 Aurigae	389	6.4	6 31 47.941	+ 4.1596	− 37	+39 28 41.75	−2.867	− 94
γ Geminor.	107	2.3	6 31 59.578	+ 3.4668	+ 23	+16 29 2.10	−2.825	− 35
S Monocer.[1]	108	var.	6 35 31.573	+ 3.3050	− 3	+ 9 59 14.67	−3.096	0
ε Geminor.	109	3.3	6 37 50.464	+ 3.6923	− 18	+25 13 45.61	−3.301	− 5
[ψ^5 Aurigae]	390	5.8	6 39 36.171	+ 4.3267	− 34	+43 40 33.80	−3.301	+ 147
ξ Geminor.	110	3.6	6 39 43.977	+ 3.3681	− 87	+13 0 8.57	−3.654	− 195
α Canis mj.[2]	564	1	6 40 47.252	+ 2.6441	−372	−16 34 49.04	−4.751	−1199
18 Monocer.	392	5.0	6 42 41.928	+ 3.1285	− 20	+ 2 31 13.79	−3.727	− 12
[43 Camelop.]	391	5.1	6 43 1.958	+ 6.4948	+ 2	+69 0 14.26	−3.706	+ 38
[24 H. Camel.]	393	4.6	6 45 38.049	+ 8.8189	+229	+77 6 13.46	−3.981	− 15
θ Geminor.	112	3.3	6 46 15.911	+ 3.9586	− 2	+34 4 51.31	−4.053	− 32
15 Lyncis[3]	394	4.7	6 48 42.398	+ 5.2097	0	+58 33 10.00	−4.353	− 123
ϑ Canis maj.	565	4.3	6 49 35.398	+ 2.7868	−105	−11 54 52.38	−4.309	− 3
51 H. Cephei	111	5.1	6 54 14.474	+29.6428	−416	+87 12 15.42	−4.752	− 51
ε Canis maj.	566	1.6	6 54 44.057	+ 2.3564	− 11	−28 50 14.37	−4.727	+ 17
ζ Gemin.[4]	113	var.	6 58 14.268	+ 3.5609	− 11	+20 42 56.44	−5.041	+ 1
γ Canis maj.	567	4.3	6 59 16.714	+ 2.7128	− 18	−15 29 13.23	−5.132	− 3
δ Canis maj.	568	2.0	7 4 21.927	+ 2.4382	− 15	−26 14 9.93	−5.552	+ 7
63 Aurigae	395	5.0	7 4 50.825	+ 4.1332	+ 30	+39 28 56.46	−5.578	+ 20
[64 Aurigae]	396	6.0	7 11 9.341	+ 4.1820	+ 5	+41 3 33.66	−6.104	+ 23
λ Geminor.	114	3.8	7 12 24.241	+ 3.4504	− 39	+16 43 9.09	−6.257	− 26
δ Geminor.	115	3.3	7 14 12.653	+ 3.5865	− 25	+22 9 53.55	−6.378	+ 3
19 Lync. seq.	397	5.1	7 14 47.425	+ 4.9089	− 40	+55 28 5.28	−6.457	− 28
ι Geminor.	117	4.0	7 19 34.727	+ 3.7313	− 97	+27 59 42.15	−6.899	− 75
Gr. 1308	116	6.0	7 20 35.134	+ 6.2891	+ 26	+68 40 4.22	−6.980	− 74
β Canis min.	118	3.0	7 21 46.940	+ 3.2555	− 42	+ 8 29 20.42	−7.036	− 30
ρ Geminor.	398	4.8	7 22 44.621	+ 3.8624	+ 88	+31 58 53.94	−6.889	+ 195
α Gemin.[5]	119	2	7 28 16.857	+ 3.8349	−151	+32 6 21.10	−7.615	− 78

[1]) Gröfse zwischen 5.0 u. 5.5.

[2]) Ort des Schwerpunkts. Die Reduction auf den Hauptstern ist nach Auwers (»Untersuchungen über veränderliche Eigenbewegungen«):

1901.0 $\Delta\alpha = -0^s.111$ $\Delta\delta = +0''.90$

1902.0 -0.129 $+0.81$

[3]) Dupl. 5^m und 6^m, 0″.5. [4]) Gröfse zwischen 3.7 u. 4.5.

[5]) $2^m.3$ u. $3^m.3$. Dupl. 5″; AR. der Mitte, Decl. des folgenden, hellern Sterns.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
25 Monocer.	569	5.3	7 32 21.228	+2.9811	− 80	− 3 53 23.34	− 7.831	+ 31
α Can. min.[1]	120	1	7 34 7.201	+3.1430	−474	+ 5 28 43.91	− 9.034	−1027
24 Lyncis	399	5.1	7 34 38.043	+5.1002	− 57	+58 56 31.51	− 8.106	− 59
ϰ Geminor.	121	3.6	7 38 28.294	+3.6266	− 34	+24 38 7.73	− 8.409	− 55
β Geminor.	122	1.3	7 39 15.533	+3.6769	−481	+28 15 55.67	− 8.469	− 51
π Geminor.	400	6.0	7 41 7.520	+3.8766	− 11	+33 39 32.14	− 8.570	− 6
[26 Lyncis]	402	6.1	7 47 30.325	+4.3832	− 55	+47 49 16.41	− 9.085	− 20
Gr. 1374	401	5.4	7 48 20.973	+7.2629	−109	+74 10 57.55	− 9.165	− 34
[53 Camelop.]	403	6.0	7 53 15.433	+5.1601	− 8	+60 35 42.62	− 9.539	− 28
χ Geminor.	404	5.0	7 57 26.345	+3.6916	− 25	+28 4 19.51	− 9.871	− 39
27 Lyncis	405	4.6	8 1 0.669	+4.5300	− 97	+51 47 32.21	−10.101	+ 2
ι Navis	570	3.0	8 3 19.637	+2.5538	− 75	−24 1 7.97	−10.217	+ 61
Br. 1147	406	5.1	8 7 6.803	+7.6541	+ 33	+76 3 33.50	−10.560	0
20 Navis	571	6.0	8 8 46.943	+2.7572	− 20	−15 29 24.47	−10.693	− 9
β Cancri	123	3.6	8 11 8.800	+3.2562	− 44	+ 9 29 26.81	−10.901	− 41
31 Lyncis	407	5.0	8 16 3.708	+4.1250	+ 5	+43 30 20.84	−11.325	− 107
Br. 1197	124	3.6	8 20 42.800	+2.9984	− 58	− 3 34 59.52	−11.547	+ 7
o Ursae maj.	125	3.3	8 22 2.582	+5.0205	−193	+61 2 57.44	−11.760	− 111
Gr. 1450	408	6.4	8 26 28.811	+3.9067	−151	+38 21 20.36	−12 170	− 208
η Cancri	409	5.8	8 26 59.101	+3.4753	− 39	+20 46 39.38	−12.044	− 47
[Gr. 1446]	410	6.0	8 28 42.556	+6.7784	− 32	+73 58 33.76	−12.220	− 103
[Gr. 1460]	411	5.6	8 31 57.473	+4.4630	−108	+53 3 31.28	−12.374	− 31
δ Cancri	126	4.0	8 39 3.578	+3.4143	− 26	+18 31 6.04	−13.053	− 226
ι Cancri	127	4.1	8 40 42.503	+3.6401	− 16	+29 7 20.21	−12.970	− 33
[ε Hydrae]	128	3.3	8 41 32.033	+3.1803	−135	+ 6 46 56.26	−13.016	− 23
[σ² Cancri m.][2]	412	5.8	8 48 12.367	+3.6701	+ 20	+30 57 15.85	−13.452	− 21
ζ Hydrae	129	3.3	8 50 9.676	+3.1746	− 73	+ 6 19 20.84	−13.539	+ 19
ι Ursae maj.	130	3.0	8 52 25.981	+4.1290	−441	+48 25 49.65	−13.952	− 246
α Cancri	131	4.0	8 53 4.388	+3.2849	+ 10	+12 14 27.95	−13.767	− 22
[ρ Urs. maj.]	413	5.0	8 53 37.560	+5.4747	− 36	+68 0 56.24	−13.764	+ 16
10 Ursae maj.	132	4.0	8 54 12.940	+3.9103	−401	+42 10 29.16	−14.077	− 258
[Gr. 1501]	414	6.0	8 56 45.582	+4.4294	+ 41	+54 40 27.73	−13.954	+ 24
ϰ Ursae maj.	133	3.3	8 56 52.185	+4.1163	− 37	+47 32 53.05	−14.052	− 68
σ² Ursae maj.	415	5.0	9 1 41.406	+5.3422	+ 2	+67 32 12.08	−14.347	− 64
[36 Lyncis]	416	5.0	9 7 20.038	+3.9447	+ 3	+43 37 33.69	−14.660	− 35

[1]) Ort des Mittelpunkts der Bahn. Die Reduction auf den Ort des sichtbaren Sterns beträgt nach Auwers (»Fundamental-Katalog«):

1901.0	Δα = +0s.041	Δδ = −0".78
1902.0	+0 .032	−0 .85

[2]) Dupl. 6m.3 und 6m.8, 1".5.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ' "	"	
ϑ Hydrae	134	4.0	9 9 12.841	+3.1238	+ 78	+ 2 43 55.21	−15.047	−309
[38 Lyncis]	135	4.1	9 12 41.156	+3.7469	− 30	+37 13 18.06	−15.056	−114
83 Cancri	417	5.8	9 13 27.437	+3.3545	− 90	+18 7 30.12	−15.126	−139
40 Lyncis	136	3.3	9 15 1.507	+3.6653	− 202	+34 48 40.69	−15.052	+ 28
α Hydrae	138	2.0	9 22 43.350	+2.9483	− 19	− 8 13 45.52	−15.461	+ 52
1 H. Dracon.	137	4.3	9 22 59.759	+8.8992	− 173	+81 45 51.44	−15.547	− 20
h Ursae maj.	139	3.3	9 23 43.678	+4.7760	+ 139	+63 29 41.52	−15.542	+ 26
d Ursae maj.	418	4.6	9 25 44.260	+5.3840	− 118	+70 15 56.59	−15.603	+ 76
ϑ Ursae maj.	140	3.0	9 26 14.364	+4.0372	−1040	+52 7 42.38	−16.273	−562
10 Leon. min.	419	4.8	9 28 9.671	+3.6895	+ 8	+36 50 14.22	−15.821	− 10
[Gr. 1564]	420	5.8	9 33 46.729	+5.2061	− 177	+69 41 17.54	−16.185	− 77
[o Leonis]	141	3.6	9 35 52.067	+3.2058	− 104	+10 20 34.37	−16.235	− 18
ε Leonis	142	3.0	9 40 13.991	+3.4130	− 43	+24 13 48.73	−16.447	− 8
υ Ursae maj.	143	3.6	9 43 57.288	+4.3032	− 390	+59 30 16.70	−16.772	−148
6 Sextantis	572	6.1	9 46 14.749	+3.0245	+ 5	− 3 46 45.36	−16.747	− 14
[μ Leonis]	144	4.0	9 47 8.045	+3.4188	− 185	+26 28 24.01	−16.822	− 45
Gr. 1586	421	6.0	9 49 32.401	+5.4591	− 229	+73 21 1.76	−16.931	− 41
[19 Leon. min.]	422	5.1	9 51 37.407	+3.6899	− 117	+41 31 38.10	−16.994	− 6
π Leonis	423	5.0	9 54 58.924	+3.1725	− 40	+ 8 31 9.53	−17.154	− 11
η Leonis	145	3.3	10 1 56.279	+3.2784	+ 13	+17 14 43.64	−17.448	+ 2
α Leonis	146	1.3	10 3 5.997	+3.1986	− 182	+12 27 4.29	−17.482	+ 18
λ Hydrae	573	4.0	10 5 45.687	+2.9237	− 148	−11 51 52.68	−17.678	− 65
λ Ursae maj.	147	3.3	10 11 7.713	+3.6346	− 164	+43 24 31.07	−17.890	− 57
ζ Leonis	148	3.0	10 11 11.106	+3.3436	0	+23 54 39.31	−17.818	+ 17
μ Ursae maj.	149	3.0	10 16 26.024	+3.5899	− 83	+41 59 50.80	−18.005	+ 34
30 H. Urs. maj.	424	5.0	10 16 59.781	+4.3742	− 70	+66 4 2.08	−18.075	− 14
[30 H. Camel.]	425	5.0	10 19 2.412	+7.7051	− 524	+83 3 45.21	−18.105	+ 33
μ Hydrae	574	4.0	10 21 18.114	+2.8995	− 98	−16 19 51.23	−18.283	− 61
31 Leon. min.	426	4.3	10 22 9.643	+3.4818	− 112	+37 12 53.12	−18.330	− 77
Lac. α Antliae	575	4.2	10 22 37.205	+2.7387	− 87	−30 33 50.77	−18.271	− 1
36 Ursae maj.	427	5.0	10 24 17.656	+3.8678	− 234	+56 29 17.91	−18.362	− 32
9 H. Dracon.	150	4.6	10 26 41.248	+5.2165	− 150	+76 13 23.05	−18.417	− 5
[ρ Leonis]	151	4.0	10 27 35.947	+3.1622	− 12	+ 9 48 58.22	−18.434	+ 11
[37 Urs. maj.]	428	5.1	10 28 47.238	+3.8943	+ 54	+57 35 33.59	−18.446	+ 39
[35 H. Urs. mj.]	429	5.1	10 35 59.302	+4.3635	+ 28	+69 35 38.15	−18.752	− 32

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
33 Sextantis	576	6.4	10 36 21.883	+3.0506	−120	− 1 13 15.59	−18.836	−104
[41 Leon. min.]	430	5.3	10 38 2.031	+3.2677	−105	+23 42 24.46	−18.758	+ 26
42 Leon. min.	431	5.0	10 40 21.663	+3.3448	− 36	+31 12 14.33	−18.871	− 17
l Leonis	432	5.1	10 44 3.250	+3.1562	− 15	+11 4 8.64	−18.982	− 20
[ν Hydrae]	577	3.3	10 44 44.348	+2.9567	+ 49	−15 40 31.95	−18.766	+215
[46 Leon. min.]	152	4.0	10 47 46.588	+3.3654	+ 53	+34 44 56.17	−19.312	−246
[Br. 1508]	433	6.0	10 52 2.785	+4.9329	−259	+78 18 2.39	−19.203	− 26
β Ursae maj.	153	2.3	10 55 52.240	+3.6480	+ 86	+56 54 47.62	−19.229	+ 41
α Ursae maj.	154	2.0	10 57 37.359	+3.7387	−179	+62 17 7.88	−19.385	− 71
χ Leonis	434	4.8	10 59 54.597	+3.0951	−255	+ 7 52 16.95	−19.389	− 22
ψ Ursae maj.	155	3.1	11 4 6.015	+3.3892	− 70	+45 2 8.07	−19.495	− 36
β Crateris	578	4.0	11 6 47.229	+2.9449	− 18	−22 17 7.58	−19.603	− 88
δ Leonis	156	2.3	11 8 50.676	+3.1968	+102	+21 3 58.52	−19.671	−115
θ Leonis	157	3.3	11 9 2.718	+3.1512	− 59	+15 58 15.03	−19.622	− 63
[Gr. 1757]	435	6.0	11 11 7.292	+3.4007	− 94	+50 0 59.97	−19.611	− 13
[ξ Urs. maj. m.]	158	3.8	11 12 54.120	+3.2070	−367	+32 5 10.49	−20.204	−573
ν Ursae maj.	159	3.3	11 13 8.150	+3.2537	+ 5	+33 38 4.76	−19.583	+ 52
δ Crateris	579	3.3	11 14 23.371	+2.9951	−106	−14 14 34.50	−19.449	+209
σ Leonis	160	4.1	11 16 1.918	+3.0950	− 71	+ 6 34 18.93	−19.685	0
Gr. 1771	436	6.1	11 16 58.180	+3.5873	−173	+64 52 20.08	−19.673	+ 27
[ι Leonis]	161	4.0	11 18 45.764	+3.1280	+ 85	+11 4 28.76	−19.792	− 63
[γ Crateris]	580	4.0	11 19 56.060	+2.9919	− 92	−17 8 24.64	−19.715	+ 32
[58 Urs. maj.]	437	6.0	11 25 9.802	+3.2601	− 62	+43 42 59.93	−19.751	+ 70
λ Draconis	162	3.3	11 25 32.008	+3.6119	− 74	+69 52 38.92	−19.853	− 27
ξ Hydrae	581	4.0	11 28 7.887	+2.9435	−166	−31 18 35.61	−19.884	− 25
υ Leonis	438	4.8	11 31 52.748	+3.0700	− 18	− 0 16 37.74	−19.855	+ 47
3 Draconis	439	5.3	11 36 57.437	+3.3871	− 63	+67 17 34.30	−19.919	+ 33
χ Ursae maj.	163	3.8	11 40 49.507	+3.1837	−145	+48 19 41.93	−19.959	+ 28
β Leonis	164	2.0	11 44 0.602	+3.0623	−356	+15 7 31.95	−20.102	− 98
β Virginis	165	3.3	11 45 32.256	+3.1243	+481	+ 2 19 21.35	−20.275	−262
γ Ursae maj.	166	2.3	11 48 37.540	+3.1747	+ 98	+54 14 42.54	−20.019	+ 8
ο Virginis	167	4.0	12 0 9.979	+3.0565	−159	+ 9 16 58.08	−20.004	+ 49
[Gr. 1852]	440	5.8	12 0 13.449	+3.1111	+442	+77 27 33.48	−20.166	−114
ε Corvi	582	3.0	12 5 1.903	+3.0787	− 59	−22 4 9.48	−20.027	+ 21
4 H. Dracon.	168	4.6	12 7 33.954	+2.8634	+ 13	+78 9 59.21	−20.016	+ 25

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
δ Ursae maj.	169	3.4	12 10 31.772	+2.9896	+134	+57 34 57.30	−20.029	+ 2
[γ Corvi]	583	2.0	12 10 42.806	+3.0795	−123	−16 59 31.83	−19.996	+ 34
[2 Can. ven.]	441	5.9	12 11 10.031	+3.0182	+ 25	+41 12 40.82	−20.059	− 31
η Virginis	170	3.3	12 14 50.404	+3.0673	− 56	− 0 7 0.45	−20.033	− 22
[6 Can. ven.]	442	5.3	12 20 58.509	+2.9659	− 59	+39 34 3.88	−19.993	− 26
δ Corvi	584	2.3	12 24 44.488	+3.0998	−142	−15 57 52.34	−20.081	−146
20 Comae	443	6.0	12 24 44.968	+3.0193	+ 33	+21 26 39.68	−19.952	− 17
[74 Urs. maj.]	444	5.6	12 25 20.145	+2.8214	− 63	+58 57 1.63	−19.837	+100
8 Can. ven.	445	4.3	12 29 2.540	+2.8560	−649	+41 53 43.01	−19.606	+285
β Corvi	585	2.3	12 29 11.013	+3.1410	− 33	−22 50 58.11	−19.942	− 52
κ Draconis	171	3.3	12 29 15.453	+2.5805	−159	+70 20 1.67	−19.890	− 2
24 Comae seq.	446	5.2	12 30 9.881	+3.0119	− 6	+18 55 19.43	−19.847	+ 31
[γ Virgin. m.]¹)	172	3	12 36 38.590	+3.0376	−385	− 0 54 23.63	−19.782	+ 15
76 Ursae maj.	447	6.0	12 37 14.525	+2.6373	− 62	+63 15 23.45	−19.806	− 18
ε Ursae maj.	173	2.0	12 49 40.477	+2.6505	+121	+56 29 48.51	−19.613	− 30
δ Virginis	174	3.0	12 50 36.917	+3.0190	−336	+ 3 56 7.50	−19.612	− 47
12 Can. ven. sq.	175	2.9	12 51 23.853	+2.8112	−220	+38 51 10.92	−19.484	+ 66
8 Draconis	448	5.0	12 51 32.309	+2.4069	+ 30	+65 58 31.25	−19.597	− 51
ε Virginis	176	2.6	12 57 14.922	+2.9863	−192	+11 29 28.22	−19.401	+ 29
ϑ Virginis	449	4.3	13 4 49.340	+3.1012	− 43	− 5 0 37.98	−19.292	− 37
[17 Can. ven.]²)	450	5.6	13 5 30.464	+2.7588	− 83	+39 1 29.77	−19.192	+ 46
43 Comae	177	4.1	13 7 15.270	+2.8033	−605	+28 22 47.81	−18.297	+897
[20 Can. ven.]	451	4.6	13 13 6.236	+2.6942	−129	+41 5 37.22	−19.019	+ 21
γ Hydrae	586	3.2	13 13 32.159	+3.2511	+ 24	−22 38 57.95	−19.066	− 38
ζ Urs. maj. pr.	178	2.1	13 19 56.407	+2.4228	+134	+55 26 32.23	−18.866	− 22
α Virginis	587	1	13 19 58.535	+3.1542	− 44	−10 38 40.91	−18.861	− 18
Gr. 2001	452	5.7	13 23 36.445	+1.5196	− 24	+72 54 19.83	−18.755	− 23
69 H. Urs. maj.	453	5.3	13 24 49.217	+2.2103	− 93	+60 27 24.47	−18.686	+ 8
ζ Virginis	179	3.3	13 29 38.834	+3.0531	−205	− 0 5 23.11	−18.481	+ 56
17 H. Can. ven.	454	5.5	13 30 22.535	+2.6801	+ 43	+37 41 22.00	−18.520	− 7
[Gr. 2029]	455	6.0	13 34 48.257	+1.4348	− 88	+71 44 45.87	−18.349	+ 11
τ Bootis	180	4.6	13 42 33.464	+2.8509	−346	+17 57 0.22	−18.037	+ 40
η Ursae maj.	181	2.0	13 43 38.476	+2.3698	−115	+49 48 26.15	−18.051	− 14
89 Virginis	588	5.0	13 44 29.414	+3.2512	− 87	−17 38 28.81	−18.037	− 33
[ι Draconis]	456	5.0	13 48 32.430	+1.7508	− 17	+65 12 43.75	−17.858	− 14

¹) 3m.3 u. 3m.3.
²) 15 Canum (5.6m) geht 22s voran, 2′.2 nördlich.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
η Bootis	182	3.0	13h 49m 58s.254	+2.8566	− 49	+18° 53′ 38″.33	−18″.131	− 344
τ Virginis	183	4.0	13 56 36.404	+3.0492	− 5	+ 2 1 23.68	−17.545	− 33
11 Bootis	457	6.0	13 56 41.169	+2.7213	− 69	+27 51 52.83	−17.491	+ 18
α Draconis	184	3.3	14 1 42.497	+1.6216	− 92	+64 50 56.20	−17.274	+ 16
d Bootis	458	5.0	14 5 53.051	+2.7369	− 20	+25 33 37.27	−17.183	− 81
κ Virginis	185	4.3	14 7 36.802	+3.1945	− 4	− 9 48 47.08	−16.883	+ 141
4 Ursae min.	459	5.0	14 9 13.563	−0.3059	−137	+78 0 46.03	−16.912	+ 36
ι Virginis	186	4.0	14 10 49.253	+3.1395	− 31	− 5 31 41.87	−17.290	− 417
α Bootis	187	1	14 11 8.696	+2.7334	−799	+19 41 52.15	−18.834	−1977
λ Bootis	188	4.0	14 12 37.200	+2.2812	−199	+46 32 33.74	−16.636	+ 151
[ι Bootis]	189	4.3	14 12 39.627	+2.1261	−165	+51 49 25.34	−16.700	+ 85
ϑ Bootis	190	3.8	14 21 49.573	+2.0414	−273	+52 18 29.67	−16.728	− 397
[φ Virginis]	191	5.0	14 23 6.010	+3.0869	−102	− 1 47 3.68	−16.270	− 2
ρ Bootis	192	3.6	14 27 33.808	+2.5857	− 85	+30 48 21.07	−15.912	+ 125
γ Bootis	193	2.9	14 28 5.488	+2.4160	−108	+38 44 27.96	−15.856	+ 153
[Gr.2125]	460	6.0	14 29 1.460	+1.6236	− 93	+60 39 40.91	−15.986	− 26
[33 Bootis]	461	5.6	14 35 9.165	+2.2329	− 72	+44 49 52.75	−15.686	− 56
π Bootis pr.	194	4.3	14 36 4.349	+2.8168	− 12	+16 50 32.04	−15.600	− 20
[ζ Bootis m.][1]	195	3.3	14 36 25.200	+2.8621	+ 19	+14 9 10.31	−15.570	− 10
μ Virginis	196	4.0	14 37 50.471	+3.1560	+ 56	− 5 13 40.55	−15.787	− 305
109 Virginis	197	3.6	14 41 14.531	+3.0285	− 94	+ 2 18 35.57	−15.317	− 27
[8 Librae]	589	6.0	14 45 12.492	+3.3091	− 98	−15 35 10.16	−15.154	− 90
α Librae	590	2.3	14 45 23.969	+3.3106	− 93	−15 37 50.62	−15.125	− 72
Gr. 2164	462	5.8	14 48 55.564	+1.5187	−167	+59 41 47.26	−14.677	+ 169
β Ursae min.	198	2.0	14 50 59.354	−0.2202	− 76	+74 33 35.97	−14.730	− 5
P. XIV. 221	463	6.0	14 51 32.866	+2.8301	− 14	+14 50 47.12	−14.671	+ 20
[2 H.Urs.min.]	464	5.0	14 56 0.654	+0.9470	− 74	+66 19 37.14	−14.364	+ 59
β Bootis	199	3.0	14 58 13.000	+2.2587	− 48	+40 46 51.17	−14.324	− 36
γ Scorpii	591	3.4	14 58 16.394	+3.5010	− 70	−24 53 35.07	−14.319	− 33
ψ Bootis	465	4.3	15 0 12.179	+2.5692	−145	+27 20 0.40	−14.173	− 8
[ι Librae]	592	4.6	15 6 34.584	+3.4117	− 37	−19 25 2.60	−13.809	− 42
[3 Serpentis]	466	5.8	15 10 16.069	+2.9791	− 20	+ 5 18 23.95	−13.526	+ 3
δ Bootis	201	3.0	15 11 30.707	+2.4188	+ 69	+33 41 2.72	−13.555	− 105
β Librae	200	2.0	15 11 40.680	+3.2223	− 79	− 9 1 4.20	−13.455	− 17
1 H. Urs. min.	467	5.3	15 13 29.901	+0.6697	+366	+67 43 21.35	−13.712	− 391

[1] Dupl. $3^m.8$ u. $4^m.2$, 1″.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
μ Bootis	202	3.8	15 20 44.945	+2.2637	−147	+37 43 26.79	−12.754	+ 83
γ Ursae min.	203	3.0	15 20 53.176	−0.1205	+ 40	+72 11 10.73	−12.811	+ 19
[τ¹ Serpentis]	468	5.4	15 21 11.800	+2.7783	− 39	+15 46 34.25	−12.804	+ 5
ι Draconis	204	3.0	15 22 43.532	+1.3281	− 20	+59 18 46.30	−12.683	+ 22
β Coron. bor.	205	3.8	15 23 44.856	+2.4733	−134	+29 26 47.89	−12.561	+ 75
ν¹ Bootis	206	4.5	15 27 22.403	+2.1540	+ 5	+41 10 13.04	−12.402	− 14
[ν² Bootis]	207	4.8	15 28 14.295	+2.1453	− 34	+41 14 6.35	−12.345	− 17
[ϑ Coron. bor.]	208	4.0	15 28 56.113	+2.4147	− 55	+31 41 34.86	−12.300	− 20
γ Librae	593	4.3	15 29 59.232	+3.3500	+ 37	−14 27 33.86	−12.190	+ 19
α Coron. bor.	209	2.0	15 30 29.760	+2.5388	+ 85	+27 2 51.59	−12.267	− 94
[φ Bootis]	469	5.0	15 34 16.307	+2.1536	+ 51	+40 40 31.59	−11.856	+ 53
[ζ Cor. bor. sq.]	210	4.3	15 35 38.910	+2.2565	− 36	+36 57 25.45	−11.809	0
[γ Coron. bor.]	211	3.8	15 38 35.109	+2.5184	− 82	+26 36 32.12	−11.569	+ 34
α Serpentis	212	2.3	15 39 23.429	+2.9515	+ 79	+ 6 44 12.80	−11.490	+ 56
β Serpentis	213	3.3	15 41 37.029	+2.7657	+ 29	+15 43 53.54	−11.427	− 41
κ Serpentis	215	4.0	15 44 16.993	+2.6988	− 39	+18 26 49.83	−11.276	− 83
μ Serpentis	214	3.3	15 44 27.110	+3.1256	− 78	− 3 7 38.29	−11.184	− 3
[12 H. Dracon.]	470	5.3	15 45 9.432	+0.9061	+ 70	+62 54 19.38	−11.191	− 63
ε Serpentis	216	3.3	15 45 52.768	+2.9864	+ 68	+ 4 46 31.62	−11.018	+ 59
ζ Ursae min.	217	4.3	15 47 34.925	−2.2377	+ 30	+78 5 56.97	−10.956	− 4
[γ Serpentis]	218	3.6	15 51 52.740	+2.7672	+194	+15 59 4.29	−11.922	−1286
ε Coron. bor.	219	4.0	15 53 29.283	+2.4813	− 74	+27 9 51.62	−10.576	− 62
δ Scorpii	594	2.3	15 54 28.668	+3.5400	− 18	−22 20 24.97	−10.470	− 28
[Gr. 2296]	471	5.1	15 55 26.232	+1.4116	−254	+55 1 45.37	−10.265	+ 103
β Scorpii	595	2.0	15 59 40.704	+3.4806	− 26	−19 32 5.54	−10.079	− 27
ϑ Draconis	220	3.6	16 0 2.141	+1.1219	−371	+58 49 46.57	− 9.678	+ 344
[φ Herculis]	221	4.0	16 5 38.718	+1.8810	−100	+45 11 39.56	− 9.552	+ 43
δ Ophiuchi	222	3.0	16 9 9.354	+3.1390	− 49	− 3 26 22.54	− 9.462	− 137
ε Ophiuchi	223	3.3	16 13 4.897	+3.1698	+ 40	− 4 27 5.57	− 8.985	+ 34
19 Ursae min.	472	5.8	16 13 38.262	−1.7723	− 50	+76 7 36.50	− 8.973	+ 3
τ Herculis	224	3.3	16 16 45.742	+1.7975	− 50	+46 32 56.16	− 8.694	+ 36
γ Herculis	225	3.1	16 17 33.102	+2.6438	− 49	+19 23 7.53	− 8.619	+ 48
[η Urs. min.]	474	5.1	16 20 23.566	−1.8035	−196	+75 59 1.02	− 8.189	+ 253
[ω Herculis]	473	5.0	16 20 50.640	+2.7613	− 30	+14 15 40.13	− 8.440	− 33
[Gr. 2343]	475	5.6	16 22 15.456	+1.3106	+ 40	+55 25 47.63	− 8.307	− 12

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			h m s	s		° ′ ″	″	
η Draconis	226	2.6	16 22 39.295	+0.8131	+ 60	+61 44 17.07	−8.213	+ 50
α Scorpii	596	1.3	16 23 20.119	+3.6710	− 22	−26 12 45.80	−8.238	− 28
[λ Ophiuchi][1]	227	3.7	16 25 55 165	+3.0230	− 27	+ 2 12 1.37	−8.065	− 65
β Herculis	228	2.3	16 25 57.760	+2.5757	− 90	+21 42 18.31	−8.010	− 12
A Draconis	229	5.0	16 28 10.299	−0.1400	− 90	+68 58 56.49	−7.785	+ 36
σ Herculis	230	4.1	16 30 54.658	+1.9316	− 20	+42 38 27.16	−7.573	+ 26
ζ Ophiuchi	597	2.6	16 31 42.354	+3.2987	− 7	−10 22 0.40	−7.501	+ 35
[Gr. 2373]	476	6.0	16 34 53.898	−2.6351	−215	+77 38 37.44	−6.998	+277
[ζ Herculis]	231	2.6	16 37 33.297	+2.2620	−357	+31 46 55.47	−6.648	+409
η Herculis	232	3.1	16 39 30.120	+2.0551	+ 28	+39 6 37.67	−6.976	− 77
Gr. 2377	477	5.0	16 43 25.237	+1.1363	+ 51	+56 57 30.89	−6.521	+ 56
49 Herculis	478	6.0	16 47 34.392	+2.7293	+ 3	+15 8 24.35	−6.233	− 1
κ Ophiuchi	233	3.3	16 52 58.861	+2.8367	−212	+ 9 31 43.96	−5.765	+ 15
ε Ursae min.	235	4.3	16 56 5.926	−6.3010	+ 90	+82 12 2.14	−5.521	− 3
ε Herculis	234	3.3	16 56 30.078	+2.2933	− 47	+31 4 19.08	−5.452	+ 32
[60 Herculis]	479	5.0	17 0 47.199	+2.7803	+ 30	+12 52 35.68	−5.126	− 2
[Gr. 2415]	480	6.0	17 4 32.835	+1.9502	− 84	+40 38 43.18	−4.819	− 14
η Ophiuchi	598	2.3	17 4 41.918	+3.4357	+ 3	−15 36 9.29	−4.695	+ 97
ζ Draconis	236	3.0	17 8 29.952	+0.1654	− 27	+65 50 11.66	−4.446	+ 22
α Herculis[2]	237	var.	17 10 7.952	+2.7332	− 19	+14 30 10.23	−4.298	+ 30
δ Herculis	238	3.0	17 10 57.874	+2.4620	− 28	+24 57 20.71	−4.410	−153
π Herculis	239	3.1	17 11 35.896	+2.0871	− 35	+36 55 13.66	−4.198	+ 5
ϑ Ophiuchi	599	3.4	17 15 55.677	+3.6795	− 24	−24 54 4.30	−3.867	− 35
[*x* Herculis]	481	5.8	17 24 6.673	+1.5857	− 28	+48 20 33.76	−3.163	− 34
β Draconis	240	2.6	17 28 11.736	+1.3532	− 20	+52 22 28.12	−2.769	+ 4
[ν¹ Draconis]	242	4.7	17 30 13.616	+1.1802	+183	+55 15 6.36	−2.550	+ 49
[ν² Draconis]	243	4.7	17 30 18.977	+1.1805	+179	+55 14 24.91	−2.547	+ 45
α Ophiuchi	241	2.0	17 30 20.282	+2.7822	+ 66	+12 37 54.90	−2.805	−217
ξ Serpentis	600	3.6	17 31 54.997	+3.4317	− 50	−15 20 11.00	−2.498	− 47
[*f* Draconis]	482	5.3	17 32 21.395	−0.2517	− 71	+68 11 52.75	−2.288	+125
ι Herculis	244	3.3	17 36 40.234	+1.6923	− 5	+46 3 31.58	−2.040	− 2
ω Draconis	483	5.0	17 37 31.844	−0.3547	+ 23	+68 48 12.91	−1.656	+308
β Ophiuchi	245	3.0	17 38 34.857	+2.9614	− 41	+ 4 36 30.63	−1.704	+167
μ Herculis	246	3.3	17 42 35.035	+2.3461	−244	+27 46 41.98	−2.267	−745
[γ Ophiuchi]	247	3.6	17 42 55.638	+3.0052	− 37	+ 2 44 39.69	−1.548	− 56

1) Dupl. 4^m u. 6^m, 1″.
2) Gröfse zwischen 3.2 u. 4.0.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ' "	"	
ψ Drac. austr.	484	4.6	17 43 41.748	— 1.0804	— 1	+72 11 51.00	—1.693	—268
ξ Draconis	248	3.3	17 51 49.250	+ 1.0413	+ 169	+56 53 16.91	—0.639	+ 78
ϑ Herculis	249	4.0	17 52 51.377	+ 2.0539	— 23	+37 15 48.58	—0.606	+ 19
ν Ophiuchi	250	3.6	17 53 34.531	+ 3.3006	— 21	— 9 45 40.83	—0.658	— 97
35 Draconis	485	5.0	17 53 52.839	— 2.6902	+ 127	+76 58 33.65	—0.296	+239
[ξ Herculis]	251	3.6	17 53 55.056	+ 2.3301	+ 60	+29 15 29.26	—0.561	— 28
γ Draconis	252	2.3	17 54 18.397	+ 1.3909	— 18	+51 30 1.02	—0.526	— 28
67 Ophiuchi	253	4.0	17 55 41.277	+ 3.0059	+ 17	+ 2 56 10.27	—0.382	— 5
γ Sagittarii	601	3.3	17 59 26.886	+ 3.8524	— 54	—30 25 32.80	—0.258	—211
72 Ophiuchi	254	3.3	18 2 39.318	+ 2.8423	— 56	+ 9 32 58.50	+0.322	+ 89
o Herculis	255	3.8	18 3 40.820	+ 2.3385	— 10	+28 44 54.96	+0.321	— 1
δ Ursae min.	256	4.3	18 4 13.344	—19.4864	+ 267	+86 36 47.94	+0.409	+ 40
μ Sagittarii	602	4.0	18 7 50.543	+ 3.5865	— 14	—21 5 6.30	+0.687	+ 1
[Gr. 2533]	486	5.4	18 12 33.786	+ 1.8578	— 78	+42 7 31.65	+1.103	+ 4
[36 Draconis]	487	5.0	18 13 19.522	+ 0.3437	+ 518	+64 21 48.65	+1.176	+ 15
η Serpentis	257	3.0	18 16 11.144	+ 3.1007	— 400	— 2 55 28.41	+0.740	—677
109 Herculis	258	4.0	18 19 28.733	+ 2.5551	+ 131	+21 43 27.73	+1.445	—257
[φ Draconis][1]	489	4.3	18 22 10.718	— 0.8550	— 1	+71 17 6.42	+1.957	+ 20
b Draconis	488	5.1	18 22 27.853	+ 0.8759	— 51	+58 44 35.17	+2.011	+ 49
χ Draconis	259	3.8	18 22 50.439	— 1.0824	+1137	+72 41 23.72	+1.621	—370
α Lyrae	260	1	18 33 35.193	+ 2.0309	+ 172	+38 41 29.17	+3.223	+296
[Gr. 2655]	490	6.0	18 34 32.297	— 2.8654	+ 87	+77 28 10.99	+2.996	— 15
[Gr. 2640]	491	6.0	18 35 54.477	+ 0.1857	— 30	+65 23 58.79	+3.156	+ 27
[ε Lyrae a. pr.]	261	4.5	18 41 3.473	+ 1.9837	— 22	+39 33 59.20	+3.653	+ 80
[5 Lyrae m.]	262	4.6	18 41 5.938	+ 1.9876	— 5	+39 30 32.30	+3.650	+ 74
110 Herculis	263	4.0	18 41 24.017	+ 2.5793	— 30	+20 27 4.29	+3.255	—348
β Lyrae[2]	264	var.	18 46 25.474	+ 2.2136	— 7	+33 14 51.74	+4.051	+ 17
σ Sagittarii	603	2.3	18 49 7.592	+ 3.7204	— 12	—26 25 12.04	+4.200	— 67
o Draconis	265	4.6	18 49 44.423	+ 0.8860	+ 90	+59 16 2.08	+4.340	+ 23
ϑ Serpent. pr.	266	4.2	18 51 17.833	+ 2.9809	+ 10	+ 4 4 29.23	+4.500	+ 49
R Lyrae[3]	492	var.	18 52 19.343	+ 1.8248	+ 14	+43 48 55.38	+4.607	+ 70
[ε Aquilae]	267	4.0	18 55 7.740	+ 2.7216	— 49	+14 56 0.75	+4.697	— 80
γ Lyrae	268	3.3	18 55 14.368	+ 2.2423	— 18	+32 33 13.04	+4.797	+ 11
[υ Draconis]	493	5.1	18 55 36.733	— 0.7211	+ 103	+71 9 53.33	+4.849	+ 31
ζ Aquilae	270	3.0	19 0 51.536	+ 2.7553	— 26	+13 42 57.85	+5.174	— 89

[1]) Dupl. 4.5^m u. 6.7^m, 0".6.
[2]) Gröfse zwischen 3.4 u. 4.5.
[3]) Gröfse zwischen 4.3 u. 4.6.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
λ Aquilae	269	3.1	19ʰ 0ᵐ 59ˢ.655	+ 3ˢ.1824	− 38	− 5° 1′ 52″.36	+ 5″.194	− 80
[ι Lyrae]	494	5.0	19 3 46.157	+ 2.1400	− 7	+35 56 41.45	+ 5.517	+ 9
π Sagittarii	604	3.1	19 3 52.581	+ 3.5686	− 22	−21 10 52.87	+ 5.483	− 34
δ Draconis	271	3.0	19 12 31.974	+ 0.0234	+155	+67 29 14.36	+ 6.319	+ 80
ϑ Lyrae	496	4.3	19 12 55.802	+ 2.0781	− 42	+37 57 25.56	+ 6.275	0
ω Aquilae	495	5.6	19 13 10.155	+ 2.8151	− 14	+11 25 0.14	+ 6.319	+ 25
ϰ Cygni	272	4.0	19 14 48.917	+ 1.3877	+ 66	+53 11 8.05	+ 6.542	+112
τ Draconis	273	4.8	19 17 27.590	− 1.1284	−316	+73 10 18.46	+ 6.757	+107
δ Aquilae	274	3.3	19 20 30.382	+ 3.0240	+153	+ 2 55 1.72	+ 6.991	+ 91
λ Ursae min.	284	6.4	19 21 22.285	−68.0444	−502	+88 59 22.44	+ 6.964	− 6
β Cygni	275	3.0	19 26 43.692	+ 2.4174	− 17	+27 45 4.93	+ 7.389	− 20
ι Cygni	276	4.1	19 27 12.635	+ 1.5135	+ 22	+51 31 7.05	+ 7.569	+121
[Gr. 2900]	497	6.3	19 27 41.164	− 3.5548	+ 20	+79 24 16.55	+ 7.454	− 32
h Sagittarii	605	4.6	19 30 40.927	+ 3.6522	+ 16	−25 6 8.25	+ 7.720	− 10
ϑ Cygni	498	4.6	19 33 47.196	+ 1.6084	− 34	+49 59 29.72	+ 8.217	+239
[15 Cygni]	499	5.3	19 40 42.402	+ 2.1637	+ 64	+37 6 54.04	+ 8.573	+ 42
γ Aquilae	277	3.0	19 41 33.152	+ 2.8512	− 5	+10 22 18.54	+ 8.605	+ 8
δ Cygni	278	2.8	19 41 52.871	+ 1.8751	+ 46	+44 53 19.80	+ 8.658	+ 35
δ Sagittae	279	4.0	19 42 58.351	+ 2.6732	− 15	+18 17 24.19	+ 8.747	+ 37
α Aquilae	280	1.3	19 45 57.164	+ 2.9268	+351	+ 8 36 23.77	+ 9.327	+384
[η Aquilae][1]	281	var.	19 47 25.739	+ 3.0554	− 17	+ 0 45 4.78	+ 9.056	− 3
ε Draconis	282	3.8	19 48 30.533	− 0.1865	+123	+70 0 56.50	+ 9.158	+ 16
β Aquilae	283	4.0	19 50 26.975	+ 2.9456	+ 7	+ 6 9 33.51	+ 8.821	−473
ψ Cygni	285	5.2	19 53 4.202	+ 1.5502	− 59	+52 10 32.86	+ 9.451	− 46
γ Sagittae	286	3.6	19 54 21.233	+ 2.6665	+ 30	+19 13 23.41	+ 9.632	+ 37
ϑ Aquilae	287	3.0	20 6 11.758	+ 3.0948	− 1	− 1 6 55.26	+10.506	+ 14
o¹ sq. Cygni[2]	288	4.5	20 10 30.852	+ 1.8884	− 4	+46 26 27.15	+10.814	+ 2
[33 Cygni]	500	4.3	20 11 5.898	+ 1.3994	+ 98	+56 15 51.96	+10.914	+ 60
[α¹ Capric.]	606	4.3	20 12 9.627	+ 3.3268	− 8	−12 48 51.36	+10.959	+ 26
ϰ Cephei	502	4.3	20 12 13.626	− 1.9466	− 15	+77 24 47.79	+10.952	+ 14
24 Vulpecul.	501	5.8	20 12 32.891	+ 2.5662	+ 4	+24 21 56.49	+10.930	− 32
α² Capric.	607	3.3	20 12 33.706	+ 3.3302	+ 22	−12 51 6.88	+10.979	+ 17
[β Capric.]	608	3.0	20 15 26.960	+ 3.3729	+ 8	−15 5 39.14	+11.195	+ 22
γ Cygni	289	2.4	20 18 40.530	+ 2.1521	− 1	+39 56 23.11	+11.425	+ 19
[ρ Capric.]	609	5.1	20 23 12.869	+ 3.4251	− 28	−18 8 28.08	+11.724	− 7

[1]) Gröfse zwischen 3.5 u. 4.7.

[2]) 30 (o¹ pr.) Cygni geht 19ˢ voran, 4′.5 nördlich; 7ᵐ.8 folgt 1ˢ, 1′.6 südlich.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
ϑ Cephei	291	4.0	20 27 55.244	+1.0117	+ 46	+62 39 39.96	+12.036	— 27
ε Delphini	290	4.0	20 28 28.977	+2.8656	— 6	+10 57 59.55	+12.080	— 22
73 Draconis	504	5.3	20 32 49.094	—0.7431	+ 19	+74 36 55.25	+12.380	— 21
β Delphini	292	3.3	20 32 54.346	+2.8114	+ 55	+14 15 1.90	+12.379	— 29
[ϰ Delphini]	503	5.0	20 34 19.244	+2.9131	+ 197	+ 9 44 13.97	+12.516	+ 12
υ Capric.	610	5.6	20 34 24.881	+3.4186	— 34	—18 29 14.21	+12.525	+ 13
α Delphini	293	3.6	20 35 2.354	+2.7855	+ 31	+15 33 45.25	+12.552	— 2
α Cygni	294	1.6	20 38 3.414	+2.0438	— 3	+44 55 35.03	+12.762	+ 3
[δ Delphini]	295	4.0	20 38 50.204	+2.8000	— 25	+14 43 9.33	+12.769	— 43
[γ Delph. sq.]	296	4.0	20 42 3.911	+2.7823	— 34	+15 46 2.25	+12.832	— 196
ε Cygni	298	2.6	20 42 12.320	+2.4260	+ 280	+33 35 57.29	+13.371	+ 336
ε Aquarii	297	3.6	20 42 19.007	+3.2490	— 2	— 9 51 30.40	+13.017	— 27
[6 H. Cephei]	505	4.8	20 42 53.599	+1.4870	— 120	+57 13 27.08	+12.837	— 246
η Cephei	299	3.6	20 43 16.590	+1.2262	+ 123	+61 27 14.70	+13.918	+ 810
λ Cygni [1])	506	4.6	20 43 33.086	+2.3339	— 11	+36 7 36.57	+13.144	+ 18
76 Draconis	508	6.0	20 49 46.437	—4.0818	+ 142	+82 9 53.21	+13.541	+ 8
32 Vulpecul.	507	5.3	20 50 20.431	+2.5548	— 16	+27 40 51.01	+13.567	— 2
[Br. 2749]	509	5.9	20 52 5.592	—2.5815	— 75	+80 10 52.14	+13.642	— 40
ν Cygni	300	4.0	20 53 28.923	+2.2344	0	+40 47 9.36	+13.771	+ 1
[ξ Cygni]	301	4.0	21 1 19.806	+2.1805	+ 6	+43 31 57.33	+14.252	— 8
61 Cygni pr.	302	5.7	21 2 27.347	+2.6799	+3443	+38 15 43.91	+17.551	+3239
ν Aquarii	611	4.3	21 4 12.099	+3.2703	+ 43	—11 46 21.95	+14.430	— 7
Br. 2777	510	5.8	21 7 29.113	—1.1207	+ 68	+77 43 29.66	+14.657	+ 23
ζ Cygni	303	3.0	21 8 43.310	+2.5504	— 15	+29 49 14.02	+14.642	— 66
[Gr. 3415] [2])	511	5.8	21 9 17.025	+1.5281	— 13	+59 34 45.08	+14.724	— 18
[τ Cygni]	305	4.0	21 10 50.309	+2.3916	+ 120	+37 37 22.04	+15.293	+ 460
α Equulei	304	4.0	21 10 52.474	+2.9986	+ 21	+ 4 50 18.21	+14.758	— 78
α Cephei	306	2.6	21 16 13.033	+1.4346	+ 210	+62 9 56.86	+15.171	+ 26
1 Pegasi	512	4.3	21 17 30.424	+2.7730	+ 64	+19 22 50.90	+15.295	+ 75
ζ Capric.	612	4.1	21 21 0.966	+3.4315	— 13	—22 50 26.27	+15.431	+ 13
[g Cygni] [3])	513	5.0	21 25 47.659	+2.2092	+ 23	+46 6 13.24	+15.778	+ 96
β Aquarii	307	3.0	21 26 20.836	+3.1595	— 6	— 6 0 24.83	+15.712	— 1
β Cephei	308	3.0	21 27 23.098	+0.7894	+ 12	+70 7 33.41	+15.756	— 12
74 Cygni	514	5.0	21 32 58.815	+2.4013	— 10	+39 58 6.33	+16.075	+ 9
[γ Capric.]	613	3.6	21 34 36.409	+3.3285	+ 119	—17 6 34.67	+16.138	— 13

[1]) Dupl. 5^m u. 6.7^m, 0″.6.
[2]) Dupl. $6^m.2$ u. $7^m.2$, 1″.1.
[3]) 6.7^m folgt 10^s, 7′ südlich.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ' "	"	
[13 H. Cephei]	515	6.0	21 35 53.298	+1.8610	+ 9	+57 2 28.00	+16.202	— 15
ε Pegasi	309	2.3	21 39 19.407	+2.9458	+ 8	+ 9 25 15.56	+16.403	+ 11
[κ Pegasi]	310	4.0	21 40 9.625	+2.7124	0	+25 11 23.22	+16.447	+ 13
[11 Cephei]	516	5.0	21 40 28.318	+0.8912	+208	+70 51 19.80	+16.530	+ 80
[λ Capric.]	614	5.3	21 41 12.442	+3.2329	+ 9	—11 49 22.82	+16.474	— 13
δ Capric.	615	3.0	21 41 34.640	+3.3152	+166	—16 34 36.48	+16.207	—297
π² Cygni	517	4.3	21 43 8.141	+2.2137	+ 11	+48 51 4.29	+16.560	— 21
16 Pegasi	518	5.3	21 48 33.421	+2.7269	— 5	+25 27 32.92	+16.842	— 2
[20 Pegasi]	519	5.8	21 56 15.973	+2.9217	+ 32	+12 38 43.61	+17.150	— 50
α Aquarii	311	3.0	22 0 41.920	+3.0812	— 8	— 0 48 3.25	+17.399	+ 2
ι Aquarii	616	4.0	22 1 5.420	+3.2423	0	—14 21 0.47	+17.365	— 49
20 Cephei	520	5.8	22 1 59.886	+1.8208	+ 21	+62 18 9.17	+17.497	+ 45
[ι Pegasi]	312	4.0	22 2 24.088	+2.7896	+209	+24 51 40.72	+17.488	+ 18
[27 Pegasi]	313	5.7	22 4 50.397	+2.6546	— 50	+32 41 19.08	+17.513	— 61
ϑ Pegasi	314	3.3	22 5 12.349	+3.0260	+175	+ 5 42 38.48	+17.629	+ 40
π Pegasi	315	4.2	22 5 35.383	+2.6600	— 20	+32 41 32.80	+17.600	— 5
ζ Cephei	316	3.4	22 7 25.030	+2.0732	— 16	+57 42 47.08	+17.675	— 6
24 Cephei	521	4.8	22 7 54.224	+1.1585	+ 21	+71 51 12.50	+17.694	— 7
ϑ Aquarii	522	4.3	22 11 36.596	+3.1670	+ 57	— 8 16 34.98	+17.832	— 19
γ Aquarii	317	3.4	22 16 32.554	+3.0987	+ 68	— 1 53 10.76	+18.061	+ 17
[31 Pegasi]	523	4.8	22 16 38.649	+2.9507	— 13	+11 42 22.35	+18.057	+ 10
3 Lacertae	524	4.4	22 19 39.899	+2.3507	— 36	+51 43 58.11	+17.958	—203
[δ Cephei] [1]	318	var.	22 25 29.617	+2.2188	+ 4	+57 54 29.97	+18.362	— 9
7 Lacertae	319	4.0	22 27 12.663	+2.4633	+131	+49 46 23.76	+18.435	+ 4
η Aquarii	320	3.8	22 30 16.126	+3.0825	+ 42	— 0 37 40.55	+18.482	— 53
[31 Cephei]	525	5.1	22 33 19.541	+1.4867	+419	+73 7 45.35	+18.658	+ 24
10 Lacertae	526	5.0	22 34 49.080	+2.6872	+ 11	+38 32 5.65	+18.684	0
[30 Cephei]	527	5.3	22 35 8.172	+2.1178	— 26	+63 4 10.42	+18.654	— 39
ζ Pegasi	321	3.3	22 36 31.446	+2.9905	+ 44	+10 18 51.57	+18.719	— 18
η Pegasi	322	3.0	22 38 21.628	+2.8069	+ 1	+29 42 11.89	+18.761	— 33
[13 Lacertae]	528	6.0	22 39 40.451	+2.6667	— 29	+41 17 58.18	+18.845	+ 12
λ Pegasi	323	4.0	22 41 45.697	+2.8855	+ 31	+23 2 40.56	+18.891	— 4
[τ Aquarii]	617	4.0	22 44 21.023	+3.1786	— 30	—14 6 55.68	+18.930	— 40
[μ Pegasi]	324	4.0	22 45 13.433	+2.8909	+ 96	+24 4 43.29	+18.953	— 42
ι Cephei	325	3.4	22 46 9.187	+2.1219	—142	+65 40 46.21	+18.881	—140

[1]) Gröfse zwischen 3.8 u. 5.0.

Name	Nr. des Fund.-Kat.	Gr.	AR. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Decl. 1901.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
λ Aquarii	326	4.0	22 47 26.956	+3.1303	— 16	— 8 6 23.69	+19.097	+ 40
δ Aquarii	618	3.0	22 49 23.777	+3.1865	— 51	—16 20 50.61	+19.099	— 10
α Piscis austr.	619	1.3	22 52 10.833	+3.3223	+ 232	—30 8 49.96	+19.021	—159
ο Androm.	327	3.6	22 57 21.852	+2.7509	+ 7	+41 47 37.78	+19.309	0
β Pegasi [1])	328	var.	22 58 58.411	+2.9023	+ 130	+27 32 44.13	+19.479	+133
α Pegasi	329	2.0	22 59 49.698	+2.9847	+ 28	+14 40 21.28	+19.335	— 30
c^2 Aquarii	620	4.0	23 4 10.137	+3.2025	+ 14	—21 42 35.40	+19.514	+ 54
π Cephei	529	4.6	23 4 44.854	+1.8976	+ 39	+74 51 7.96	+19.431	— 41
Br. 3077	530	6.0	23 8 30.740	+2.8689	+2499	+56 37 17.58	+19.830	+286
[γ Piscium]	330	4.0	23 12 1.931	+3.1081	+ 487	+ 2 44 28.49	+19.632	+ 17
τ Pegasi	531	4.6	23 15 44.131	+2.9637	+ 9	+23 11 53.67	+19.666	— 14
[υ Pegasi]	532	4.6	23 20 26.151	+2.9871	+ 112	+22 51 32.35	+19.793	+ 39
4 Cassiopej.	533	5.8	23 20 26.230	+2.6466	+ 10	+61 44 20.73	+19.733	— 21
κ Piscium	534	5.3	23 21 51.397	+3.0741	+ 41	+ 0 42 48.56	+19.674	—102
70 Pegasi	535	5.0	23 24 8.774	+3.0290	+ 13	+12 12 51.04	+19.838	+ 30
[72 Pegasi]	536	5.6	23 29 2.356	+2.9674	+ 19	+30 46 43.77	+19.865	— 5
[λ Androm.]	331	4.0	23 32 43.037	+2.9244	+ 158	+45 55 17.86	+19.485	—425
ι Androm.	332	4.0	23 33 16.734	+2.9305	+ 14	+42 43 11.27	+19.904	— 12
ι Piscium	333	4.3	23 34 51.440	+3.0831	+ 234	+ 5 5 22.36	+19.489	—443
γ Cephei	334	3.3	23 35 16.805	+2.4253	— 202	+77 4 46.58	+20.071	+135
[κ Androm.]	335	4.1	23 35 31.805	+2.9431	+ 69	+43 47 8.47	+19.914	— 24
ω^2 Aquarii	621	4.6	23 37 35.315	+3.1131	+ 53	—15 5 32.54	+19.902	— 55
41 H. Cephei	537	5.6	23 43 10.211	+2.8348	— 40	+67 15 24.10	+19.988	— 10
Lac. δ Sculpt.	622	4.4	23 43 46.097	+3.1280	+ 36	—28 40 40.18	+19.905	— 97
φ Pegasi	538	5.6	23 47 26.969	+3.0449	— 33	+18 34 13.10	+19.981	— 42
[ρ Cassiopej.]	539	4.8	23 49 26.009	+2.9749	— 32	+56 56 54.12	+20.018	— 12
ω Piscium	336	4.0	23 54 13.588	+3.0777	+ 87	+ 6 18 54.84	+19.938	—108

[1]) Gröfse zwischen 2.2 u. 2.7.

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Obere Culmination.

1901	43 Hev. Cephei. $4^m.3$. AR.		Decl.		α Ursae minoris. $2^m.0$. AR.		Decl.		Gr. 750. $6^m.4$. AR.		Decl.	
	$0^h\ 55^m$		$+85°\ 43'$		$1^h\ 22^m$		$+88°\ 47'$		$4^h\ 5^m$		$+85°\ 17'$	
Jan. 1	$16^s.83$	24	$59''.22$	8	$93^s.90$	82	$9''.34$	13	$43^s.09$	8	$48''.81$	27
2	16.59	24	59.30	10	93.08	85	9.47	13	43.01	8	49.08	27
3	16.35	26	59.40	10	92.23	91	9.60	13	42.93	10	49.35	29
4	16.09	29	59.50	8	91.32	98	9.73	13	42.83	11	49.64	29
5	15.80	29	59.58	6	90.34	104	9.86	12	42.72	13	49.93	30
6	15.51	31	59.64	5	89.30	108	9.98	10	42.59	15	50.23	29
7	15.20	32	59.69	3	88.22	111	10.08	8	42.44	17	50.52	27
8	14.88	32	59.72	0	87.11	111	10.16	5	42.27	19	50.79	26
9	14.56	30	59.72	3	86.00	108	10.21	3	42.08	19	51.05	24
10	14.26	30	59.69	3	84.92	104	10.24	1	41.89	19	51.29	21
11	13.96	28	59.66	4	83.88	99	10.25	1	41.70	19	51.50	20
12	13.68	26	59.62	3	82.89	92	10.26	0	41.51	17	51.70	18
13	13.42	25	59.59	3	81.97	89	10.26	1	41.34	16	51.88	19
14	13.17	24	59.56	2	81.08	88	10.27	2	41.18	15	52.07	19
15	12.93	24	59.54	1	80.20	89	10.29	3	41.03	14	52.26	20
16	12.69	26	59.53	1	79.31	91	10.32	4	40.89	15	52.46	22
17	12.43	27	59.52	0	78.40	97	10.36	4	40.74	16	52.68	23
18	12.16	28	59.52	1	77.43	103	10.[illegible]0	4	40.58	17	52.91	23
19	11.88	29	59.51	2	76.40	108	10.44	3	40.41	19	53.14	23
20	11.59	31	59.49	4	75.32	111	10.47	1	40.22	21	53.37	23
21	11.28	31	59.45	6	74.21	113	10.48	2	40.01	22	53.60	21
22	10.97	30	59.39	9	73.08	111	10.46	4	39.79	23	53.81	19
23	10.67	29	59.30	10	71.97	106	10.42	6	39.56	23	54.00	16
24	10.38	27	59.20	12	70.91	101	10.36	7	39.33	22	54.16	15
25	10.11	26	59.08	11	69.90	94	10.29	7	39.11	22	54.31	13
26	9.85	24	58.97	12	68.96	89	10.22	7	38.89	20	54.44	12
27	9.61	23	58.85	11	68.07	86	10.15	7	38.69	20	54.56	12
28	9.38	23	58.74	10	67.21	84	10.08	6	38.49	19	54.68	13
29	9.15	23	58.64	8	66.37	86	10.02	5	38.30	19	54.81	14
30	8.92	24	58.56	8	65.51	90	9.97	4	38.11	18	54.95	15
31	8.68	25	58.48	10	64.61	95	9.93	4	37.93	20	55.10	16
Febr. 1	8.43	27	58.38	10	63.66	100	9.89	6	37.73	22	55.26	15
2	8.16	28	58.28	11	62.66	105	9.83	7	37.51	24	55.41	16
3	7.88	28	58.17	14	61.61	107	9.76	10	37.27	25	55.57	15
4	7.60	29	58.03	16	60.54	107	9.66	11	37.02	26	55.72	12
5	7.31	28	57.87	19	59.47	104	9.55	13	36.76	28	55.84	10
6	7.03	27	57.68	20	58.43	99	9.42	16	36.48	28	55.94	7
7	6.76		57.48		57.44		9.26		36.20		56.01	
O. C.	$+0^s.29\cos\varphi$				$+1^s.01\cos\varphi$				$+0^s.26\cos\varphi$			
U. C.	$-0\ .29\cos\varphi$				$-1\ .01\cos\varphi$				$-0\ .26\cos\varphi$			

Obere Culmination.

1901	43 Hev. Cephei. $4^m.3$.				α Ursae minoris. $2^m.0$.				Gr. 750. $6^m.4$.			
	AR.		Decl.		AR.		Decl.		AR.		Decl.	
	$0^h\ 55^m$		$+85°\ 43'$		$1^h\ 22^m$		$+88°\ 47'$		$4^h\ 5^m$		$+85°\ 17'$	
Febr. 7	$6^s.76$	24	$57''.48$	21	$57^s.44$	93	$9''.26$	17	$36^s.20$	27	$56''.01$	6
8	6.52	22	57.27	21	56.51	86	9.09	18	35.93	25	56.07	4
9	6.30	21	57.06	21	55.65	81	8.91	17	35.68	24	56.11	3
10	6.09	20	56.85	19	54.84	77	8.74	16	35.44	23	56.14	3
11	5.89	19	56.66	18	54.07	76	8.58	14	35.21	22	56.17	4
12	5.70	20	56.48	17	53.31	77	8.44	14	34.99	21	56.21	6
13	5.50	20	56.31	16	52.54	81	8.30	13	34.78	22	56.27	7
14	5.30	22	56.15	17	51.73	85	8.17	13	34.56	23	56.34	8
15	5.08	23	55.98	18	50.88	90	8.04	15	34.33	25	56.42	8
16	4.85	24	55.80	19	49.98	93	7.89	17	34.08	26	56.50	7
17	4.61	24	55.61	21	49.05	94	7.72	17	33.82	27	56.57	6
18	4.37	23	55.40	23	48.11	93	7.55	20	33.55	28	56.63	4
19	4.14	23	55.17	25	47.18	89	7.35	21	33.27	29	56.67	1
20	3.91	21	54.92	26	46.29	82	7.14	22	32.98	28	56.68	1
21	3.70	18	54.66	26	45.47	75	6.92	23	32.70	26	56.67	3
22	3.52	17	54.40	27	44.72	68	6.69	23	32.44	25	56.64	4
23	3.35	15	54.13	25	44.04	63	6.46	23	32.19	24	56.60	5
24	3.20	14	53.88	24	43.41	60	6.23	22	31.95	23	56.55	5
25	3.06	13	53.64	23	42.81	59	6.01	21	31.72	22	56.50	3
26	2.93	14	53.41	23	42.22	61	5.80	20	31.50	21	56.47	2
27	2.79	16	53.18	22	41.61	64	5.60	19	31.29	22	56.45	1
28	2.63	17	52.96	23	40.97	69	5.41	20	31.07	24	56.44	1
März 1	2.46	18	52.73	24	40.28	74	5.21	21	30.83	25	56.43	1
2	2.28	18	52.49	26	39.54	76	5.00	24	30.58	27	56.42	2
3	2.10	19	52.23	27	38.78	75	4.76	25	30.31	28	56.40	3
4	1.91	17	51.96	30	38.03	73	4.51	27	30.03	28	56.37	6
5	1.74	17	51.66	32	37.30	68	4.24	30	29.75	29	56.31	9
6	1.57	14	51.34	33	36.62	61	3.94	30	29.46	29	56.22	11
7	1.43	12	51.01	33	36.01	54	3.64	30	29.17	27	56.11	12
8	1.31	10	50.68	32	35.47	48	3.34	30	28.90	24	55.99	13
9	1.21	8	50.36	30	34.99	42	3.04	29	28.66	23	55.86	14
10	1.13	7	50.06	29	34.57	38	2.75	28	28.43	22	55.72	13
11	1.06	8	49.77	28	34.19	38	2.47	27	28.21	21	55.59	12
12	0.98	8	49.49	27	33.81	41	2.20	25	28.00	20	55.47	11
13	0.90	9	49.22	26	33.40	44	1.95	25	27.80	22	55.36	9
14	0.81	10	48.96	27	32.96	48	1.70	25	27.58	22	55.27	9
15	0.71	12	48.69	27	32.48	51	1.45	27	27.36	23	55.18	9
16	0.59		48.42		31.97		1.18		27.13		55.09	
O. C.	$+ 0^s.29 \cos \varphi$				$+ 1^s.01 \cos \varphi$				$+ 0^s.26 \cos \varphi$			
U. C.	$- 0.29 \cos \varphi$				$- 1.01 \cos \varphi$				$- 0.26 \cos \varphi$			

Obere Culmination.

1901	43 Hev. Cephei. 4ᵐ.3. AR.		43 Hev. Cephei. Decl.		α Ursae minoris. 2ᵐ.0. AR.		α Ursae minoris. Decl.		Gr. 750. 6ᵐ.4. AR.		Gr. 750. Decl.	
	$0^h\ 54^m$		$+85°\ 43'$		$1^h\ 22^m$		$+88°\ 46'$		$4^h\ 5^m$		$+85°\ 17'$	
März 16	60.59	11	48.42	30	31.97	53	61.18	27	27.13	24	55.09	10
17	60.48	11	48.12	32	31.44	52	60.91	30	26.89	26	54.99	12
18	60.37	10	47.80	32	30.92	47	60.61	31	26.63	25	54.87	14
19	60.27	8	47.48	34	30.45	42	60.30	32	26.38	26	54.73	16
20	60.19	6	47.14	34	30.03	34	59.98	34	26.12	24	54.57	19
21	60.13	4	46.80	34	29.69	25	59.64	33	25.88	23	54.38	19
22	60.09	2	46.46	33	29.44	19	59.31	32	25.65	20	54.19	21
23	60.07	0	46.13	31	29.25	15	58.99	31	25.45	19	53.98	20
24	60.07	0	45.82	30	29.10	13	58.68	30	25.26	18	53.78	19
25	60.07	0	45.52	29	28.97	13	58.38	28	25.08	17	53.59	18
26	60.07	1	45.23	28	28.84	16	58.10	28	24.91	16	53.41	17
27	60.06	2	44.95	27	28.68	19	57.82	27	24.75	18	53.24	16
28	60.04	3	44.68	29	28.49	23	57.55	27	24.57	19	53.08	16
29	60.01	4	44.39	29	28.26	26	57.28	29	24.38	21	52.92	17
30	59.97	3	44.10	32	28.00	27	56.99	32	24.17	21	52.75	18
31	59.94	3	43.78	33	27.73	25	56.67	33	23.96	23	52.57	19
April 1	59.91	3	43.45	35	27.48	21	56.34	34	23.73	22	52.38	22
2	59.88	1	43.10	36	27.27	14	56.00	36	23.51	21	52.16	24
3	59.87	—2	42.74	36	27.13	7	55.64	35	23.30	21	51.92	26
4	59.89	5	42.38	35	27.06	—2	55.29	36	23.09	18	51.66	28
	59.94	6	42.03	34								
5	60.00	7	41.69	31	27.08	8	54.93	34	22.91	16	51.38	27
6	60.07	8	41.38	30	27.16	12	54.59	33	22.75	15	51.11	26
7	60.15	7	41.08	29	27.28	12	54.26	31	22.60	14	50.85	25
8	60.22	6	40.79	27	27.40	12	53.95	29	22.46	12	50.60	24
9	60.28	6	40.52	28	27.52	9	53.66	29	22.34	13	50.36	23
10	60.34	4	40.24	28	27.61	5	53.37	29	22.21	13	50.13	22
11	60.38	4	39.96	29	27.66	2	53.08	28	22.08	14	49.91	21
12	60.42	4	39.67	30	27.68	0	52.80	29	21.94	15	49.70	21
					27.68	0	52.51	31				
13	60.46	5	39.37	32	27.68	4	52.20	32	21.79	16	49.49	23
14	60.51	6	39.05	32	27.72	9	51.88	34	21.63	16	49.26	25
15	60.57	8	38.73	33	27.81	15	51.54	34	21.47	16	49.01	27
16	60.65	11	38.40	32	27.96	23	51.20	35	21.31	14	48.74	29
17	60.76	12	38.08	31	28.19	30	50.85	33	21.17	13	48.45	30
18	60.88	13	37.77	30	28.49	36	50.52	32	21.04	11	48.15	31
19	61.01	15	37.47	28	28.85	40	50.20	30	20.93	9	47.84	31
20	61.16		37.19		29.25		49.90		20.84		47.53	
O. C.	$+0^s.29\cos\varphi$				$+1^s.01\cos\varphi$				$+0^s.26\cos\varphi$			
U. C.	$-0.29\cos\varphi$				$-1.01\cos\varphi$				$-0.26\cos\varphi$			

Obere Culmination.

1901	43 Hev. Cephei. $4^m.3$.				α Ursae minoris. $2^m.0$.				Gr. 750. $6^m.4$.			
	AR.		Decl.		AR.		Decl.		AR.		Decl.	
	$0^h\ 55^m$		+85° 43′		$1^h\ 22^m$		+88° 46′		$4^h\ 5^m$		+85° 17′	
	s		″		s		″		s		″	
April 20	1.16	16	37.19	27	29.25	40	49.90	27	20.84	8	47.53	30
21	1.32	14	36.92	25	29.65	38	49.63	27	20.76	7	47.23	29
22	1.46	14	36.67	24	30.03	34	49.36	26	20.69	6	46.94	27
23	1.60	12	36.43	24	30.37	30	49.10	26	20.63	6	46.67	26
24	1.72	12	36.19	25	30.67	26	48.84	27	20.57	7	46.41	24
25	1.84	10	35.94	26	30.93	25	48.57	28	20.50	8	46.17	25
26	1.94	10	35.68	28	31.18	25	48.29	29	20.42	10	45.92	26
27	2.04	12	35.40	29	31.43	29	48.00	31	20.32	10	45.66	28
28	2.16	13	35.11	30	31.72	35	47.69	33	20.22	11	45.38	29
29	2.29	15	34.81	30	32.07	41	47.36	32	20.11	10	45.09	31
30	2.44	18	34.51	29	32.48	49	47.04	32	20.01	9	44.78	32
Mai 1	2.62	20	34.22	28	32.97	56	46.72	31	19.92	7	44.46	34
2	2.82	20	33.94	26	33.53	60	46.41	29	19.85	5	44.12	34
3	3.02	21	33.68	25	34.13	63	46.12	27	19.80	3	43.78	34
4	3.23	21	33.43	22	34.76	62	45.85	25	19.77	1	43.44	32
5	3.44	20	33.21	21	35.38	60	45.60	23	19.76	0	43.12	31
6	3.64	19	33.00	19	35.98	55	45.37	23	19.76	0	42.81	29
7	3.83	18	32.81	20	36.53	52	45.14	23	19.76	1	42.52	28
8	4.01	17	32.61	20	37.05	49	44.91	22	19.75	1	42.24	27
9	4.18	16	32.41	21	37.54	47	44.69	24	19.74	1	41.97	26
10	4.34	18	32.20	23	38.01	48	44.45	26	19.73	3	41.71	27
11	4.52	19	31.97	23	38.49	52	44.19	26	19.70	4	41.44	29
12	4.71	20	31.74	24	39.01	59	43.93	26	19.66	3	41.15	30
13	4.91	22	31.50	23	39.60	67	43.67	28	19.63	2	40.85	32
14	5.13	24	31.27	23	40.27	73	43.39	26	19.61	0	40.53	33
15	5.37	25	31.04	20	41.00	79	43.13	25	19.61	1	40.20	34
16	5.62	26	30.84	19	41.79	83	42.88	22	19.62	3	39.86	34
17	5.88	27	30.65	16	42.62	84	42.66	20	19.65	5	39.52	33
18	6.15	27	30.49	15	43.46	82	42.46	19	19.70	7	39.19	32
19	6.42	25	30.34	14	44.28	80	42.27	17	19.77	7	38.87	30
20	6.67	24	30.20	13	45.08	74	42.10	17	19.84	7	38.57	28
21	6.91	23	30.07	13	45.82	69	41.93	17	19.91	6	38.29	27
22	7.14	22	29.94	15	46.51	67	41.76	18	19.97	6	38.02	26
23	7.36	21	29.79	15	47.18	66	41.58	19	20.03	4	37.76	26
24	7.57	21	29.64	17	47.84	67	41.39	20	(20.07	3	(37.50	28
									(20.10	3	(37.22	28
25	7.78	23	29.47	17	48.51	71	41.19	21	20.13	3	36.94	30
26	8.01		29.30		49.22		40.98		20.16		36.64	
O. C.	+ 0ˢ.29 cos φ				+ 1ˢ.00 cos φ				+ 0ˢ.26 cos φ			
U. C.	— 0 .29 cos φ				— 1 .00 cos φ				— 0 .26 cos φ			

Obere Culmination.

1901	43 Hev. Cephei. 4ᵐ.3. AR.	Diff.	Decl.	Diff.	α Ursae minoris. 2ᵐ.0. AR.	Diff.	Decl.	Diff.	Gr. 750. 6ᵐ.4. AR.	Diff.	Decl.	Diff.
	0ʰ 55ᵐ		+85° 43′		1ʰ 22ᵐ		+88° 46′		4ʰ 5ᵐ		+85° 17′	
Mai 26	8ˢ.01	25	29″.30	18	49ˢ.22	78	40″.98	22	20ˢ.16	3	36″.64	32
27	8.26	27	29.12	18	50.00	84	40.76	22	20.19	6	36.32	34
28	8.53	28	28.94	16	50.84	91	40.54	20	20.25	8	35.98	34
29	8.81	30	28.78	15	51.75	97	40.34	19	20.33	10	35.64	32
30	9.11	30	28.63	13	52.72	98	40.15	17	20.43	11	35.32	32
31	9.41	30	28.50	10	53.70	98	39.98	14	20.54	13	35.00	30
Juni 1	9.71	29	28.40	8	54.68	96	39.84	13	20.67	13	34.70	28
2	10.00	29	28.32	7	55.64	92	39.71	11	20.80	13	34.42	27
3	10.29	27	28.25	6	56.56	87	39.60	11	20.93	12	34.15	25
4	10.56	26	28.19	7	57.43	82	39.49	11	21.05	11	33.90	23
5	10.82	25	28.12	7	58.25	80	39.38	11	21.16	11	33.67	24
6	11.07	24	28.05	9	59.05	80	39.27	12	21.27	9	33.43	25
7	11.31	26	27.96	9	59.85	82	39.15	14	21.36	10	33.18	26
8	11.57	27	27.87	10	60.67	87	39.01	13	21.46	10	32.92	28
9	11.84	29	27.77	9	61.54	94	38.88	14	21.56	12	32.64	30
10	12.13	30	27.68	9	62.48	99	38.74	14	21.68	13	32.34	30
11	12.43	31	27.59	7	63.47	105	38.60	12	21.81	16	32.04	30
12	12.74	33	27.52	5	64.52	110	38.48	10	21.97	17	31.74	29
13	13.07	33	27.47	3	65.62	111	38.38	8	22.14	19	31.45	27
14	13.40	32	27.44	1	66.73	110	38.30	6	22.33	19	31.18	26
15	13.72	32	27.43	0	67.83	106	38.24	4	22.52	20	30.92	24
16	14.04	31	27.43	1	68.89	101	38.20	3	22.72	19	30.68	22
17	14.35	28	27.44	2	69.90	95	38.17	4	22.91	18	30.46	21
18	14.63	27	27.46	1	70.85	91	38.13	3	23.09	17	30.25	20
19	14.90	27	27.47	0	71.76	89	38.10	4	23.26	16	30.05	21
20	15.17	26	27.47	2	72.65	89	38.06	6	23.42	14	29.84	22
21	15.43	27	27.45	2	73.54	90	38.00	8	23.56	15	29.62	23
22	15.70	28	27.43	3	74.44	95	37.92	8	23.71	16	29.39	25
23	15.98	30	27.40	3	75.39	102	37.84	7	23.87	16	29.14	26
24	16.28	32	27.37	2	76.41	108	37.77	7	24.03	17	28.88	26
25	16.60	32	27.35	0	77.49	112	37.70	5	24.20	20	28.62	26
26	16.92	34	27.35	2	78.61	116	37.65	2	24.40	22	28.36	25
27	17.26	34	27.37	4	79.77	116	37.63	1	24.62	24	28.11	23
28	17.60	33	27.41	6	80.93	114	37.62	— 1	24.86	24	27.88	21
29	17.93	32	27.47	8	82.07	109	37.63	3	25.10	24	27.67	19
30	18.25	30	27.55	9	83.16	103	37.66	4	25.34	24	27.48	17
Juli 1	18.55	29	27.64	9	84.19	98	37.70	5	25.58	22	27.31	16
2	18.84		27.73		85.17		37.75		25.80		27.15	
O. C.	+ 0ˢ.29 cos φ				+ 1ˢ.00 cos φ				+ 0ˢ.26 cos φ			
U. C.	— 0 .29 cos φ				— 1 .00 cos φ				— 0 .26 cos φ			

Obere Culmination.

1901	43 Hev. Cephei. $4^m.3$. AR.	Δ	Decl.	Δ	α Ursae minoris. $2^m.0$. AR.	Δ	Decl.	Δ	Gr. 750. $6^m.4$. AR.	Δ	Decl.	Δ
	$0^h\ 55^m$		$+85°\ 43'$		$1^h\ 23^m$		$+88°\ 46'$		$4^h\ 5^m$		$+85°\ 17'$	
Juli 2	18.84	28	27.73	7	25.17	95	37.75	4	25.80	21	27.15	15
3	19.12	27	27.80	8	26.12	93	37.79	3	26.01	21	27.00	16
4	19.39	26	27.88	6	27.05	92	37.82	1	26.22	20	26.84	18
5	19.65	28	27.94	6	27.97	95	37.83	1	26.42	20	26.66	18
6	19.93	29	28.00	6	28.92	101	37.84	1	26.62	21	26.48	19
7	20.22	31	28.06	6	29.93	107	37.85	1	26.83	22	26.29	20
8	20.53	32	28.12	7	31.00	114	37.86	2	27.05	24	26.09	21
9	20.85	34	28.19	9	32.14	117	37.88	4	27.29	26	25.88	20
10	21.19	33	28.28	11	33.31	118	37.92	7	27.55	28	25.68	19
11	21.52	34	28.39	13	34.49	118	37.99	8	27.83	29	25.49	17
12	21.86	33	28.52	16	35.67	114	38.07	10	28.12	29	25.32	15
13	22.19	30	28.68	16	36.81	109	38.17	12	28.41	28	25.17	12
14	22.49	29	28.84	16	37.90	102	38.29	12	28.69	27	25.05	10
15	22.78	27	29.00	17	38.92	96	38.41	12	28.96	26	24.95	10
16	23.05	26	29.17	15	39.88	93	38.53	10	29.22	24	24.85	10
17	23.31	25	29.32	14	40.81	91	38.63	9	29.46	24	24.75	11
18	23.56	26	29.46	13	41.72	92	38.72	8	29.70	22	24.64	12
19	23.82	26	29.59	11	42.64	94	38.80	8	29.92	23	24.52	13
20	24.08	28	29.70	12	43.58	99	38.88	7	30.15	24	24.39	15
21	24.36	29	29.82	12	44.57	106	38.95	8	30.39	25	24.24	15
22	24.65	31	29.94	14	45.63	111	39.03	8	30.64	27	24.09	15
23	24.96	31	30.08	15	46.74	114	39.11	11	30.91	29	23.94	14
24	25.27	32	30.23	18	47.88	114	39.22	13	31.20	30	23.80	13
25	25.59	31	30.41	20	49.02	111	39.35	15	31.50	31	23.67	11
26	25.90	29	30.61	22	50.13	108	39.50	17	31.81	31	23.56	8
27	26.19	28	30.83	22	51.21	103	39.67	18	32.12	30	23.48	5
28	26.47	27	31.05	23	52.24	96	39.85	20	32.42	29	23.43	5
29	26.74	25	31.28	23	53.20	91	40.05	18	32.71	29	23.38	4
30	26.99	23	31.51	21	54.11	87	40.23	18	33.00	27	23.34	3
31	27.22	23	31.72	21	54.98	86	40.41	16	33.27	26	23.31	4
Aug. 1	27.45	24	31.93	19	55.84	87	40.57	16	33.53	26	23.27	6
2	27.69	25	32.12	19	56.71	91	40.73	15	33.79	26	23.21	8
3	27.94	26	32.31	19	57.62	97	40.88	15	34.05	27	23.13	8
4	28.20	27	32.50	20	58.59	101	41.03	16	34.32	29	23.05	8
5	28.47	29	32.70	22	59.60	105	41.19	17	34.61	31	22.97	7
6	28.76	29	32.92	24	60.65	108	41.36	18	34.92	32	22.90	7
7	29.05	29	33.16	25	61.73	108	41.54	21	35.24	33	22.83	5
8	29.34		33.41		62.81		41.75		35.57		22.78	
O. C.	$+ 0^s.29 \cos\varphi$				$+ 1^s.00 \cos\varphi$				$+ 0^s.26 \cos\varphi$			
U. C.	$- 0.29 \cos\varphi$				$- 1.00 \cos\varphi$				$- 0.26 \cos\varphi$			

Obere Culmination.

1901	43 Hev. Cephei. $4^m.3$.				α Ursae minoris. $2^m.0$.				Gr. 750. $6^m.4$.			
	AR.		Decl.		AR.		Decl.		AR.		Decl.	
	$0^h\ 55^m$		$+85°\ 43'$		$1^h\ 24^m$		$+88°\ 46'$		$4^h\ 5^m$		$+85°\ 17'$	
Aug. 8	$29^s.34$	27	$33''.41$	27	$2^s.81$	105	$41''.75$	23	$35^s.57$	34	$22''.78$	3
9	29.61	27	33.68	29	3.86	99	41.98	25	35.91	33	22.75	1
10	29.88	25	33.97	29	4.85	93	42.23	26	36.24	33	22.74	1
11	30.13	22	34.26	29	5.78	86	42.49	26	36.57	31	22.75	3
12	30.35	21	34.55	28	6.64	81	42.75	24	36.88	29	22.78	3
13	30.56	21	34.83	27	7.45	77	42.99	24	37.17	28	22.81	2
14	30.77	19	35.10	25	8.22	76	43.23	22	37.45	28	22.83	1
15	30.96	20	35.35	24	8.98	79	43.45	21	37.73	26	22.84	0
16	31.16	22	35.59	24	9.77	82	43.66	20	37.99	26	22.84	1
17	31.38	22	35.83	24	10.59	87	43.86	19	38.25	28	22.83	2
18	31.60	23	36.07	25	11.46	92	44.05	21	38.53	30	22.81	2
19	31.83	25	36.32	27	12.38	95	44.26	23	38.83	31	22.79	2
20	32.08	25	36.59	28	13.33	96	44.49	25	39.14	32	22.77	1
21	32.33	24	36.87	30	14.29	95	44.74	27	39.46	33	22.76	2
22	32.57	23	37.17	33	15.24	91	45.01	28	39.79	34	22.78	4
23	32.80	22	37.50	33	16.15	86	45.29	30	40.13	33	22.82	6
24	33.02	20	37.83	33	17.01	78	45.59	30	40.46	32	22.88	8
25	33.22	18	38.16	33	17.79	72	45.89	30	40.78	30	22.96	9
26	33.40	17	38.49	32	18.51	67	46.19	30	41.08	30	23.05	10
27	33.57	15	38.81	31	19.18	64	46.49	29	41.38	29	23.15	8
28	33.72	16	39.12	31	19.82	65	46.78	27	41.67	27	23.23	8
29	33.88	16	39.43	29	20.47	68	47.05	26	41.94	27	23.31	7
30	34.04	18	39.72	28	21.15	71	47.31	25	42.21	28	23.38	5
31	34.22	18	40.00	30	21.86	76	47.56	27	42.49	30	23.43	5
Sept. 1	34.40	20	40.30	31	22.62	81	47.83	28	42.79	30	23.48	4
2	34.60	20	40.61	32	23.43	83	48.11	29	43.09	32	23.52	6
3	34.80	21	40.93	34	24.26	83	48.40	31	43.41	33	23.58	7
4	35.01	19	41.27	36	25.09	81	48.71	33	43.74	34	23.65	9
5	35.20	19	41.63	37	25.90	76	49.04	35	44.08	34	23.74	11
6	35.39	17	42.00	38	26.66	69	49.39	36	44.42	33	23.85	14
7	35.56	14	42.38	38	27.35	62	49.75	35	44.75	32	23.99	15
8	35.70	13	42.76	37	27.97	55	50.10	35	45.07	30	24.14	16
9	35.83	11	43.13	36	28.52	51	50.45	34	45.37	28	24.30	15
10	35.94	11	43.49	34	29.03	48	50.79	31	45.65	27	24.45	14
11	36.05	10	43.83	33	29.51	49	51.10	31	45.92	26	24.59	13
12	36.15	11	44.16	31	30.00	51	51.41	29	46.18	26	24.72	12
13	36.26	12	44.47	32	30.51	56	51.70	29	46.44	26	24.84	11
14	36.38		44.79		31.07		51.99		46.70		24.95	
O. C.	$+0^s.29 \cos\varphi$				$+1^s.00 \cos\varphi$				$+0^s.26 \cos\varphi$			
U. C.	$-0.29 \cos\varphi$				$-1.00 \cos\varphi$				$-0.26 \cos\varphi$			

Obere Culmination.

1901	43 Hev. Cephei. $4^m.3$. AR.		Decl.		α Ursae minoris. $2^m.0$. AR.		Decl.		Gr. 750. $6^m.4$. AR.		Decl.	
	$0^h\ 55^m$		+85° 43′		$1^h\ 24^m$		+88° 46		$4^h\ 5^m$		+85° 17′	
	s		″		s		″		s		″	
Sept. 14	36.38	14	44.79	31	31.07	61	51.99	30	46.70	27	24.95	10
15	36.52	15	45.10	33	31.68	64	52.29	31	46.97	29	25.05	11
16	36.67	15	45.43	35	32.32	65	52.60	33	47.26	30	25.16	12
17	36.82	14	45.78	36	32.97	65	52.93	34	47.56	32	25.28	14
18	36.96	14	46.14	38	33.62	62	53.27	36	47.88	32	25.42	15
19	37.10	13	46.52	40	34.24	56	53.63	38	48.20	31	25.57	17
20	37.23	11	46.92	39	34.80	49	54.01	38	48.51	31	25.74	20
21	37.34	8	47.31	40	35.29	41	54.39	38	48.82	29	25.94	20
22	37.42	6	47.71	39	35.70	36	54.77	38	49.11	27	26.14	21
23	37.48	5	48.10	37	36.06	32	55.15	37	49.38	26	26.35	21
24	37.53	6	48.47	36	36.38	30	55.52	35	49.64	25	26.56	20
25	37.59	6	48.83	35	36.68	32	55.87	34	49.89	24	26.76	19
26	37.65	6	49.18	34	37.00	35	56.21	33	50.13	25	26.95	18
27	37.71	7	49.52	34	37.35	40	56.54	33	50.38	25	27.13	17
28	37.78	9	49.86	34	37.75	44	56.87	33	50.63	27	27.30	17
29	37.87	9	50.20	36	38.19	47	57.20	35	50.90	28	27.47	17
30	37.96	9	50.56	38	38.66	48	57.55	36	51.18	29	27.64	18
Oct. 1	38.05	10	50.94	40	39.14	46	57.91	39	51.47	30	27.82	20
2	38.15	8	51.34	41	39.60	42	58.30	40	51.77	30	28.02	22
3	38.23	7	51.75	42	40.02	36	58.70	41	52.07	28	28.24	24
4	38.30	4	52.17	41	40.38	28	59.11	41	52.35	28	28.48	25
5	38.34	2	52.58	41	40.66	20	59.52	40	52.63	26	28.73	27
6	38.36	0	52.99	40	40.86	15	59.92	39	52.89	24	29.00	27
7	38.36	0	53.39	37	41.01	11	60.31	38	53.13	22	29.27	26
8	38.36	1	53.76	36	41.12	10	60.69	36	53.35	22	29.53	25
9	38.35	1	54.12	34	41.22	12	61.05	34	53.57	20	29.78	23
10	38.34	— 1	54.46	34	41.34	15	61.39	33	53.77	21	30.01	22
11	38.35	1	54.80	34	41.49	19	61.72	34	53.98	21	30.23	21
12	38.36	3	55.14	34	41.68	23	62.06	34	54.19	23	30.44	21
13	38.39	3	55.48	36	41.91	25	62.40	36	54.42	24	30.65	22
14	38.42	3	55.84	37	42.16	26	62.76	36	54.66	25	30.87	23
15	38.45	2	56.21	39	42.42	23	63.12	39	54.91	25	31.10	25
16	38.47	2	56.60	39	42.65	18	63.51	40	55.16	26	31.35	26
17	38.49	— 1	56.99	41	42.83	11	63.91	41	55.42	24	31.61	29
18	38.48	3	57.40	41	42.94	3	64.32	41	55.66	23	31.90	31
19	38.45	4	57.81	39	42.97	— 3	64.73	40	55.89	21	32.21	31
20	38.41	6	58.20	38	42.94	9	65.13	39	56.10	19	32.52	31
21	38.35		58.58		42.85		65.52		56.29		32.83	
O. C.	+ $0^s.29 \cos\varphi$				+ $1^s.01 \cos\varphi$				+ $0^s.26 \cos\varphi$			
U. C.	— 0 .29 cos φ				— 1 .01 cos φ				— 0 .26 cos φ			

Obere Culmination.

1901	43 Hev. Cephei. 4ᵐ.3. AR.	Diff.	Decl.	Diff.	α Ursae minoris. 2ᵐ.0. AR.	Diff.	Decl.	Diff.	Gr. 750. 6ᵐ.4. AR.	Diff.	Decl.	Diff.
	0ʰ 55ᵐ		+85° 43′		1ʰ 24ᵐ		+88° 47′		4ʰ 5ᵐ		+85° 17′	
Oct. 21	38.35		58.58		42.85		5.52		56.29		32.83	
22	38.28	7	58.95	37	42.74	11	5.89	37	56.47	18	33.14	31
23	38.21	7	59.30	35	42.63	11	6.26	37	56.64	17	33.43	29
24	38.15	6	59.63	33	42.55	8	6.61	35	56.81	17	33.70	27
25	38.10	5	59.97	34	42.50	5	6.95	34	56.98	17	33.96	26
26	38.06	4	60.30	33	42.50	0	7.29	34	57.17	19	34.21	25
27	38.03	3	60.64	34	42.54	4	7.64	35	57.36	19	34.47	26
28	38.01	2	61.00	36	42.58	4	8.00	36	57.57	21	34.74	27
29	37.98	3	61.37	37	42.62	4	8.38	38	57.78	21	35.02	28
30	37.94	4	61.75	38	42.63	1	8.78	40	58.00	22	35.32	30
31	37.90	4	62.14	39	42.57	—6	9.18	40	58.22	22	35.64	32
Nov. 1	37.83	7	62.53	39	42.44	13	9.59	41	58.42	20	35.97	33
2	37.74	9	62.92	39	42.24	20	10.00	41	58.60	18	36.32	35
3	37.62	12	63.29	37	41.97	27	10.39	39	58.76	16	36.67	35
4	37.49	13	63.65	36	41.65	32	10.76	37	58.90	14	37.01	34
5	37.37	12	63.98	33	41.31	34	11.11	35	59.01	11	37.34	33
6	37.24	13	64.29	31	40.98	33	11.45	34	59.12	11	37.65	31
7	37.11	13	64.59	30	40.67	31	11.77	32	59.24	12	37.95	30
8	37.00	11	64.88	29	40.40	27	12.09	32	59.36	12	38.24	29
9	36.90	10	65.17	29	40.18	22	12.40	31	59.48	12	38.52	28
10	36.80	10	65.48	31	39.99	19	12.72	32	59.61	13	38.79	27
11	36.72	8	65.80	32	39.80	19	13.06	34	59.76	15	39.08	29
12	36.63	9	66.13	33	39.60	20	13.41	35	59.92	16	39.38	30
13	36.53	10	66.47	34	39.35	25	13.77	36	60.07	15	39.71	33
14	36.41	12	66.82	35	39.04	31	14.14	37	60.21	14	40.05	34
15	36.27	14	67.17	35	38.65	39	14.51	37	60.34	13	40.41	36
16	36.11	16	67.51	34	38.19	46	14.88	37	60.46	12	40.78	37
17	35.93	18	67.83	32	37.68	51	15.23	35	60.55	9	41.15	37
18	35.74	19	68.13	30	37.13	55	15.57	34	60.63	8	41.51	36
19	35.56	18	68.42	29	36.58	55	15.88	31	60.69	6	41.85	34
20	35.38	18	68.69	27	36.04	54	16.19	31	60.75	6	42.18	33
21	35.21	17	68.95	26	35.53	51	16.48	29	60.80	5	42.50	32
22	35.04	17	69.21	26	35.06	47	16.77	29	60.87	7	42.80	30
23	34.89	15	69.48	27	34.64	42	17.05	28	60.95	8	43.10	30
24	34.75	14	69.75	27	34.25	39	17.35	30	61.03	8	43.40	30
25	34.61	14	70.03	28	33.86	39	17.66	31	61.13	10	43.71	31
26	34.47	14	70.33	30	33.43	43	17.98	32	61.23	10	44.04	33
27	34.30	17	70.63	30	32.96	47	18.32	34	61.33	10	44.39	35
O. C.	+ 0ˢ.29 cos φ				+ 1ˢ.01 cos φ				+ 0ˢ.26 cos φ			
U. C.	— 0 .29 cos φ				— 1 .01 cos φ				— 0 .26 cos φ			

Obere Culmination.

1901	43 Hev. Cephei. $4^m.3$.				α Ursae minoris. $2^m.0$.				Gr. 750. $6^m.4$.			
	AR.	Δ	Decl.	Δ	AR.	Δ	Decl.	Δ	AR.	Δ	Decl.	Δ
	$0^h\ 55^m$		$+85°\ 44'$		$1^h\ 24^m$		$+88°\ 47'$		$4^h\ 6^m$		$+85°\ 17'$	
Nov. 27	34.30	18	10.63	30	32.96	53	18.32	34	1.33	8	44.39	37
28	34.12	19	10.93	30	32.43	61	18.66	33	1.41	7	44.76	37
29	33.93	21	11.23	28	31.82	68	18.99	32	1.48	5	45.13	38
30	33.72	23	11.51	26	31.14	72	19.31	30	1.53	2	45.51	37
Dec. 1	33.49	24	11.77	24	30.42	76	19.61	28	1.55	1	45.88	36
2	33.25	24	12.01	22	29.66	77	19.89	26	1.56	1	46.24	34
3	33.01	23	12.23	21	28.89	74	20.15	24	1.55	1	46.58	32
4	32.78	22	12.44	19	28.15	70	20.39	23	1.54	1	46.90	31
5	32.56	21	12.63	19	27.45	66	20.62	21	1.53	1	47.21	30
6	32.35	20	12.82	19	26.79	62	20.83	22	1.52	1	47.51	29
7	32.15	18	13.01	19	26.17	60	21.05	23	1.51	1	47.80	29
8	31.97	20	13.20	21	25.57	60	21.28	25	1.52	3	48.09	31
9	31.77	20	13.41	22	24.97	64	21.53	25	1.55	3	48.40	32
10	31.57	21	13.63	22	24.33	68	21.78	27	1.58	1	48.72	34
11	31.36	23	13.85	23	23.65	75	22.05	27	1.59	1	49.06	35
12	31.13	25	14.08	22	22.90	82	22.32	26	1.60	1	49.41	36
13	30.88	26	14.30	20	22.08	88	22.58	24	1.59	4	49.77	36
14	30.62	28	14.50	19	21.20	92	22.82	23	1.55	5	50.13	35
15	30.34	29	14.69	16	20.28	93	23.05	21	1.50	7	50.48	34
16	30.05	28	14.85	15	19.35	92	23.26	19	1.43	7	50.82	32
17	29.77	26	15.00	13	18.43	90	23.45	17	1.36	8	51.14	30
18	29.51	25	15.13	11	17.53	85	23.62	17	1.28	7	51.44	29
19	29.26	24	15.24	12	16.68	80	23.79	16	1.21	7	51.73	28
20	29.02	23	15.36	13	15.88	76	23.95	17	1.14	5	52.01	27
21	28.79	22	15.49	14	15.12	74	24.12	18	1.09	4	52.28	28
22	28.57	23	15.63	14	14.38	75	24.30	19	1.05	4	52.56	30
23	28.34	23	15.77	16	13.63	79	24.49	20	1.01	3	52.86	30
24	28.11	25	15.93	16	12.84	84	24.69	21	0.98	4	53.16	32
25	27.86	27	16.09	15	12.00	90	24.90	19	0.94	6	53.48	33
26	27.59	28	16.24	14	11.10	97	25.09	19	0.88	8	53.81	33
27	27.31	30	16.38	12	10.13	103	25.28	17	0.80	10	54.14	33
28	27.01	30	16.50	10	9.10	106	25.45	15	0.70	12	54.47	32
29	26.71	31	16.60	7	8.04	106	25.60	12	0.58	14	54.79	31
30	26.40	29	16.67	5	6.98	104	25.72	10	0.44	15	55.10	28
31	26.11	29	16.72	3	5.94	100	25.82	8	0.29	14	55.38	26
32	25.82		16.75		4.94		25.90		0.15		55.64	
O. C.	$+ 0^s.29 \cos\varphi$				$+ 1^s.01 \cos\varphi$				$+ 0^s.26 \cos\varphi$			
U. C.	$- 0\ .29 \cos\varphi$				$- 1\ .01 \cos\varphi$				$- 0\ .26 \cos\varphi$			

Obere Culmination.

1901	51 Hev. Cephei. 5ᵐ.1. AR.	Diff.	Decl.	Diff.	1 Hev. Draconis. 4ᵐ.3. AR.	Diff.	Decl.	Diff.	ε Ursae minoris. 4ᵐ.3. AR.	Diff.	Decl.	Diff.
	$6^h\ 54^m$		$+87°\ 12'$		$9^h\ 23^m$		$+81°\ 45'$		$16^h\ 55^m$		$+82°\ 11'$	
Jan. 1	49.79	13	7.60	28	7.88	14	30.03	15	54.31	4	56.21	31
2	49.92	14	7.88	29	8.02	13	30.18	15	54.35	4	55.90	33
3	50.06	14	8.17	31	8.15	14	30.33	16	54.39	5	55.57	35
4	50.20	14	8.48	31	8.29	13	30.49	19	54.44	6	55.22	36
5	50.34	12	8.79	33	8.42	14	30.68	21	54.50	7	54.86	36
6	50.46	10	9.12	35	8.56	13	30.89	24	54.57	8	54.50	35
7	50.56	7	9.47	36	8.69	11	31.13	26	54.65	8	54.15	35
8	50.63	3	9.83	35	8.80	11	31.39	25	54.73	10	53.80	32
9	50.66	0	10.18	34	8.91	11	31.64	26	54.83	10	53.48	29
10	50.66	2	10.52	33	9.02	9	31.90	25	54.93	10	53.19	28
11	50.64	4	10.85	32	9.11	8	32.15	25	55.03	10	52.91	27
12	50.60	4	11.17	30	9.19	8	32.40	23	55.13	9	52.64	26
13	50.56	3	11.47	29	9.27	9	32.63	22	55.22	9	52.38	25
14	50.53	2	11.76	28	9.36	9	32.85	21	55.31	8	52.13	26
15	50.51	0	12.04	28	9.45	8	33.06	20	55.39	8	51.87	28
16	50.51	0	12.32	29	9.53	10	33.26	22	55.47	8	51.59	28
17	50.51	1	12.61	31	9.63	10	33.48	24	55.55	9	51.31	30
18	50.52	1	12.92	32	9.73	10	33.72	25	55.64	9	51.01	30
19	50.53	0	13.24	33	9.83	10	33.97	27	55.73	11	50.71	31
20	50.53	3	13.57	34	9.93	9	34.24	28	55.84	12	50.40	30
21	50.50	6	13.91	34	10.02	9	34.52	30	55.96	12	50.10	28
22	50.44	9	14.25	34	10.11	7	34.82	31	56.08	13	49.82	26
23	50.35	12	14.59	33	10.18	7	35.13	30	56.21	13	49.56	24
24	50.23	14	14.92	31	10.25	5	35.43	28	56.34	13	49.32	22
25	50.09	14	15.23	30	10.30	5	35.71	27	56.47	13	49.10	21
26	49.95	15	15.53	27	10.35	4	35.98	26	56.60	11	48.89	19
27	49.80	14	15.80	26	10.39	5	36.24	25	56.71	11	48.70	19
28	49.66	12	16.06	26	10.44	6	36.49	24	56.82	11	48.51	20
29	49.54	11	16.32	26	10.50	5	36.73	25	56.93	11	48.31	21
30	49.43	11	16.58	26	10.55	6	36.98	25	57.04	11	48.10	22
31	49.32	11	16.84	28	10.61	7	37.23	27	57.15	12	47.88	24
Febr. 1	49.21	12	17.12	30	10.68	5	37.50	30	57.27	13	47.64	25
2	49.09	14	17.42	31	10.73	6	37.80	32	57.40	14	47.39	24
3	48.95	16	17.73	32	10.79	5	38.12	32	57.54	15	47.15	22
4	48.79	19	18.05	32	10.84	3	38.44	33	57.69	16	46.93	21
5	48.60	23	18.37	31	10.87	3	38.77	34	57.85	16	46.72	19
6	48.37	25	18.68	30	10.90	2	39.11	32	58.01	17	46.53	16
7	48.12		18.98		10.92		39.43		58.18		46.37	
O. C.	+ 0ˢ.44 cos φ				+ 0ˢ.15 cos φ				+ 0ˢ.16 cos φ			
U. C.	— 0 .44 cos φ				— 0 .15 cos φ				— 0 .16 cos φ			

Obere Culmination.

1901	51 Hev. Cephei. 5ᵐ.1. AR.	Diff.	Decl.	Diff.	1 Hev. Draconis. 4ᵐ.3. AR.	Diff.	Decl.	Diff.	ε Ursae minoris. 4ᵐ.3. AR.	Diff.	Decl.	Diff.
	$6^h\ 54^m$		$+87°\ 12'$		$9^h\ 23^m$		$+81°\ 45'$		$16^h\ 55^m$		$+82°\ 11'$	
Febr. 7	48.12	27	18.98	27	10.92	0	39.43	32	58.18	16	46.37	14
8	47.85	27	19.25	26	10.92	0	39.75	31	58.34	15	46.23	12
9	47.58	27	19.51	24	10.92	0	40.06	28	58.49	15	46.11	12
10	47.31	26	19.75	22	10.92	0	40.34	28	58.64	14	45.99	12
11	47.05	25	19.97	22	10.92	1	40.62	27	58.78	14	45.87	12
12	46.80	23	20.19	22	10.93	1	40.89	27	58.92	13	45.75	14
13	46.57	22	20.41	24	10.94	2	41.16	28	59.05	14	45.61	15
14	46.35	22	20.65	24	10.96	2	41.44	29	59.19	14	45.46	16
15	46.13	22	20.89	26	10.98	2	41.73	31	59.33	15	45.30	16
16	45.91	24	21.15	27	11.00	1	42.04	32	59.48	16	45.14	15
17	45.67	27	21.42	26	11.01	1	42.36	34	59.64	17	44.99	13
18	45.40	30	21.68	27	11.02	—1	42.70	34	59.81	17	44.86	11
19	45.10	32	21.95	26	11.01	2	43.04	34	59.98	18	44.75	9
20	44.78	34	22.21	23	10.99	3	43.38	32	60.16	17	44.66	7
21	44.44	35	22.44	20	10.96	4	43.70	31	60.33	17	44.59	5
22	44.09	36	22.64	19	10.92	3	44.01	29	60.50	16	44.54	3
23	43.73	36	22.83	17	10.89	3	44.30	27	60.66	14	44.51	4
24	43.37	33	23.00	16	10.86	4	44.57	26	60.80	15	44.47	3
25	43.04	32	23.16	16	10.82	3	44.83	26	60.95	14	44.44	5
26	42.72	31	23.32	17	10.79	2	45.09	26	61.09	14	44.39	5
27	42.41	30	23.49	17	10.77	3	45.35	27	61.23	15	44.34	7
28	42.11	30	23.66	19	10.74	2	45.62	29	61.38	15	44.27	7
März 1	41.81	31	23.85	20	10.72	3	45.91	31	61.53	16	44.20	6
2	41.50	33	24.05	20	10.69	4	46.22	31	61.69	17	44.14	6
3	41.17	36	24.25	20	10.65	5	46.53	33	61.86	18	44.08	4
4	40.81	40	24.45	20	10.60	5	46.86	33	62.04	19	44.04	1
5	40.41	42	24.65	18	10.55	6	47.19	32	62.23	18	44.03	—1
6	39.99	43	24.83	16	10.49	7	47.51	31	62.41	18	44.04	3
7	39.56	44	24.99	14	10.42	8	47.82	28	62.59	17	44.07	4
8	39.12	44	25.13	12	10.34	8	48.10	27	62.76	16	44.11	6
9	38.68	42	25.25	10	10.26	8	48.37	25	62.92	16	44.17	7
10	38.26	41	25.35	9	10.18	6	48.62	24	63.08	15	44.24	6
11	37.85	39	25.44	8	10.12	7	48.86	24	63.23	14	44.30	5
12	37.46	37	25.52	10	10.05	6	49.10	23	63.37	14	44.35	3
13	37.09	35	25.62	11	9.99	7	49.33	24	63.51	15	44.38	3
14	36.74	36	25.73	12	9.92	6	49.57	26	63.66	15	44.41	2
15	36.38	37	25.85	13	9.86	7	49.83	27	63.81	16	44.43	1
16	36.01		25.98		9.79		50.10		63.97		44.44	
O. C.	$+0^s.44 \cos\varphi$				$+0^s.15 \cos\varphi$				$+0^s.16 \cos\varphi$			
U. C.	$-0.44 \cos\varphi$				$-0.15 \cos\varphi$				$-0.16 \cos\varphi$			

Obere Culmination.

1901	51 Hev. Cephei. 5ᵐ.1. AR.		Decl.		1 Hev. Draconis. 4ᵐ.3. AR.		Decl.		ε Ursae minoris. 4ᵐ.3. AR.		Decl.	
	$6^h\ 54^m$		$+87°\ 12'$		$9^h\ 23^m$		$+81°\ 45'$		$16^h\ 56^m$		$+82°\ 11'$	
März 16	$36^s.01$	38	$25''.98$	13	$9^s.79$	7	$50''.10$	29	$3^s.97$	17	$44''.44$	4
17	35.63	41	26.11	12	9.72	8	50.39	29	4.14	18	44.48	6
18	35.22	44	26.23	11	9.64	9	50.68	27	4.32	17	44.54	8
19	34.78	46	26.34	9	9.55	9	50.95	27	4.49	18	44.62	10
20	34.32	46	26.43	7	9.46	11	51.22	25	4.67	16	44.72	12
21	33.86	46	26.50	4	9.35	11	51.47	24	4.83	16	44.84	13
22	33.40	46	26.54	3	9.24	11	51.71	21	4.99	14	44.97	15
23	32.94	44	26.57	1	9.13	11	51.92	19	5.13	14	45.12	15
24	32.50	41	26.58	0	9.02	10	52.11	19	5.27	13	45.27	14
25	32.09	40	26.58	0	8.92	10	52.30	17	5.40	13	45.41	13
26	31.69	39	26.58	1	8.82	9	52.47	19	5.53	13	45.54	11
27	31.30	37	26.59	3	8.73	9	52.66	20	5.66	14	45.65	11
28	30.93	39	26.62	4	8.64	9	52.86	21	5.80	14	45.76	11
29	30.54	40	26.66	4	8.55	10	53.07	22	5.94	15	45.87	11
30	30.14	42	26.70	5	8.45	10	53.29	24	6.09	16	45.98	12
31	29.72	44	26.75	4	8.35	11	53.53	23	6.25	16	46.10	15
April 1	29.28	47	26.79	3	8.24	12	53.76	23	6.41	16	46.25	17
2	28.81	48	26.82	1	8.12	13	53.99	21	6.57	16	46.42	19
3	28.33	49	26.83	— 2	7.99	14	54.20	19	6.73	15	46.61	22
4	27.84	48	26.81	3	7.85	14	54.39	18	6.88	13	46.83	22
5	27.36	47	26.78	6	7.71	14	54.57	15	7.01	13	47.05	23
6	26.89	45	26.72	8	7.57	13	54.72	13	7.14	12	47.28	23
7	26.44	42	26.64	7	7.44	12	54.85	13	7.26	11	47.51	21
8	26.02	40	26.57	8	7.32	12	54.98	11	7.37	11	47.72	20
9	25.62	37	26.49	6	7.20	12	55.09	13	7.48	11	47.92	18
10	25.25	37	26.43	6	7.08	11	55.22	14	7.59	12	48.10	18
11	24.88	38	26.37	4	6.97	11	55.36	15	7.71	11	48.28	18
12	24.50	39	26.33	4	6.86	12	55.51	16	7.82	13	48.46	19
13	24.11	40	26.29	3	6.74	12	55.67	16	7.95	13	48.65	20
14	23.71	42	26.26	4	6.62	13	55.83	16	8.08	14	48.85	22
15	23.29	44	26.22	6	6.49	14	55.99	15	8.22	12	49.07	24
16	22.85	45	26.16	9	6.35	14	56.14	13	8.34	12	49.31	26
17	22.40	45	26.07	11	6.21	14	56.27	11	8.46	12	49.57	28
18	21.95	43	25.96	14	6.07	15	56.38	9	8.58	11	49.85	29
19	21.52	42	25.82	14	5.92	15	56.47	7	8.69	9	50.14	28
20	21.10	40	25.68	16	5.77	14	56.54	5	8.78	9	50.42	28
21	20.70	37	25.52	16	5.63	13	56.59	5	8.87	8	50.70	27
22	20.33		25.36		5.50		56.64		8.95		50.97	
O. C.	$+0^s.44\cos\varphi$				$+0^s.15\cos\varphi$				$+0^s.16\cos\varphi$			
U. C.	$-0.44\cos\varphi$				$-0.15\cos\varphi$				$-0.16\cos\varphi$			

Obere Culmination.

1901	51 Hev. Cephei. $5^m.1$. AR.	Δ	Decl.	Δ	1 Hev. Draconis. $4^m.3$. AR.	Δ	Decl.	Δ	ε Ursae minoris. $4^m.3$. AR.	Δ	Decl.	Δ
	$6^h\ 54^m$		+87° 12'		$9^h\ 23^m$		+81° 45'		$16^h\ 56^m$		+82° 11'	
April 22	$20^s.33$	35	25".36	16	$5^s.50$	13	56".64	4	$8^s.95$	8	50".97	25
23	19.98	33	25.20	14	5.37	13	56.68	5	9.03	9	51.22	24
24	19.65	32	25.06	13	5.24	12	56.73	7	9.12	8	51.46	24
25	19.33	34	24.93	12	5.12	11	56.80	7	9.20	9	51.70	24
26	18.99	36	24.81	10	5.01	13	56.87	9	9.29	10	51.94	25
27	18.63	38	24.71	11	4.88	14	56.96	9	9.39	11	52.19	25
28	18.25	39	24.60	12	4.74	14	57.05	8	9.50	10	52.44	28
29	17.86	40	24.48	14	4.60	15	57.13	8	9.60	10	52.72	30
30	17.46	41	24.34	16	4.45	15	57.21	5	9.70	9	53.02	32
Mai 1	17.05	41	24.18	18	4.30	16	57.26	3	9.79	8	53.34	33
2	16.64	39	24.00	20	4.14	16	57.29	1	9.87	7	53.67	34
3	16.25	36	23.80	21	3.98	16	57.30	0	9.94	6	54.01	34
4	15.89	34	23.59	23	3.82	15	57.30	2	10.00	6	54.35	32
5	15.55	31	23.36	22	3.67	14	57.28	3	10.06	4	54.67	30
6	15.24	28	23.14	22	3.53	13	57.25	3	10.10	5	54.97	30
7	14.96	27	22.92	20	3.40	13	57.22	2	10.15	5	55.27	28
8	14.69	27	22.72	20	3.27	11	57.20	1	10.20	5	55.55	27
9	14.42	27	22.52	18	3.16	11	57.19	0	10.25	7	55.82	27
10	14.15	28	22.34	17	3.05	13	57.19	1	10.32	6	56.09	29
11	13.87	30	22.17	19	2.92	14	57.20	1	10.38	6	56.38	30
12	13.57	31	21.98	19	2.78	14	57.21	0	10.44	6	56.68	32
13	13.26	33	21.79	21	2.64	14	57.21	2	10.50	6	57.00	33
14	12.93	32	21.58	23	2.50	15	57.19	4	10.56	5	57.33	35
15	12.61	31	21.35	25	2.35	15	57.15	6	10.61	3	57.68	36
16	12.30	30	21.10	28	2.20	15	57.09	8	10.64	2	58.04	36
17	12.00	27	20.82	28	2.05	14	57.01	10	10.66	2	58.40	35
18	11.73	24	20.54	28	1.91	14	56.91	12	10.68	1	58.75	34
19	11.49	21	20.26	28	1.77	12	56.79	11	10.69	1	59.09	33
20	11.28	19	19.98	27	1.65	11	56.68	10	10.70	0	59.42	31
21	11.09	18	19.71	26	1.54	12	56.58	9	10.70	1	59.73	29
22	10.91	18	19.45	24	1.42	11	56.49	9	10.71	2	60.02	29
23	10.73	19	19.21	22	1.31	12	56.40	7	10.73	2	60.31	30
24	10.54	20	18.99	23	1.19	12	56.33	7	10.75	2	60.61	30
25	10.34	23	18.76	23	1.07	13	56.26	6	10.77	2	60.91	32
26	10.11	24	18.53	24	0.94	13	56.20	7	10.79	2	61.23	34
27	9.87	24	18.29	26	0.81	14	56.13	8	10.81	2	61.57	35
28	9.63	24	18.03	28	0.67	14	56.05	11	10.83	2	61.92	36
29	9.39		17.75		0.53		55.94		10.85		62.28	
O. C.	$+0^s.44\cos\varphi$				$+0^s.15\cos\varphi$				$+0^s.16\cos\varphi$			
U. C.	$-0\ .44\cos\varphi$				$-0\ .15\cos\varphi$				$-0\ .16\cos\varphi$			

Obere Culmination.

1901	51 Hev. Cephei. 5ᵐ.1. AR.		Decl.		1 Hev. Draconis. 4ᵐ.3. AR.		Decl.		ε Ursae minoris. 4ᵐ.3. AR.		Decl.	
	6h 54m		+87° 12′		9h 22m		+81° 45′		16h 56m		+82° 12′	
Mai 29	9.39	23	17.75	30	60.53	14	55.94	13	10.85	0	2.28	38
30	9.16	21	17.45	31	60.39	13	55.81	15	10.85	1	2.66	36
31	8.95	17	17.14	32	60.26	13	55.66	18	10.84	2	3.02	36
Juni 1	8.78	14	16.82	32	60.13	12	55.48	18	10.82	3	3.38	34
2	8.64	11	16.50	31	60.01	11	55.30	18	10.79	3	3.72	33
3	8.53	10	16.19	30	59.90	10	55.12	17	10.76	2	4.05	30
4	8.43	9	15.89	29	59.80	10	54.95	16	10.74	2	4.35	30
5	8.34	8	15.60	28	59.70	9	54.79	15	10.72	3	4.65	29
6	8.26	10	15.32	27	59.61	10	54.64	14	10.69	1	4.94	29
7	8.16	10	15.05	26	59.51	10	54.50	13	10.68	0	5.23	30
8	8.06	12	14.79	26	59.41	11	54.37	14	10.68	1	5.53	31
9	7.94	12	14.53	27	59.30	12	54.23	16	10.67	2	5.84	33
10	7.82	13	14.26	30	59.18	11	54.07	17	10.65	2	6.17	34
11	7.69	13	13.96	32	59.07	11	53.90	20	10.63	4	6.51	36
12	7.56	11	13.64	34	58.96	12	53.70	21	10.59	4	6.87	35
13	7.45	9	13.30	35	58.84	11	53.49	23	10.55	6	7.22	36
14	7.36	5	12.95	35	58.73	10	53.26	24	10.49	7	7.58	34
15	7.31	2	12.60	35	58.63	10	53.02	25	10.42	7	7.92	31
16	7.29	0	12.25	34	58.53	9	52.77	24	10.35	6	8.23	30
17	7.29	2	11.91	32	58.44	8	52.53	24	10.29	7	8.53	28
18	7.31	2	11.59	30	58.36	7	52.29	22	10.22	6	8.81	27
19	7.33	2	11.29	29	58.29	7	52.07	21	10.16	6	9.08	27
20	7.35	1	11.00	28	58.22	7	51.86	20	10.10	5	9.35	27
21	7.36	— 2	10.72	28	58.15	8	51.66	19	10.05	5	9.62	28
22	7.34	3	10.44	28	58.07	9	51.47	19	10.00	5	9.90	30
23	7.31	3	10.16	30	57.98	9	51.28	21	9.95	5	10.20	32
24	7.28	4	9.86	32	57.89	10	51.07	22	9.90	6	10.52	32
25	7.24	3	9.54	33	57.79	10	50.85	24	9.84	6	10.84	34
26	7.21	1	9.21	35	57.69	9	50.61	26	9.78	8	11.18	33
27	7.20	— 2	8.86	35	57.60	9	50.35	28	9.70	9	11.51	32
28	7.22	5	8.51	36	57.51	7	50.07	30	9.61	10	11.83	30
29	7.27	8	8.15	35	57.44	7	49.77	29	9.51	10	12.13	28
30	7.35	10	7.80	34	57.37	6	49.48	29	9.41	11	12.41	26
Juli 1	7.45	12	7.46	32	57.31	5	49.19	28	9.30	10	12.67	25
2	7.57	12	7.14	30	57.26	5	48.91	27	9.20	9	12.92	23
3	7.69	12	6.84	29	57.21	4	48.64	25	9.11	8	13.15	23
4	7.81 / 7.92	11	6.55 / 6.26	29	57.17		48.39		9.03		13.38	
O. C.	+ 0ˢ.44 cos φ				+ 0ˢ.15 cos φ				+ 0ˢ.16 cos φ			
U. C.	— 0 .44 cos φ				— 0 .15 cos φ				— 0 .16 cos φ			

Obere Culmination.

1901	51 Hev. Cephei. $5^m.1$.				1 Hev. Draconis. $4^m.3$.				ε Ursae minoris. $4^m.3$.			
	AR.		Decl.		AR.		Decl.		AR.		Decl.	
	$6^h\ 54^m$		$+87°\ 11'$		$9^h\ 22^m$		$+81°\ 45'$		$16^h\ 56^m$		$+82°\ 12'$	
Juli 4	$7^s.92$	10	$66''.26$	28	$57^s.17$	5	$48''.39$	24	$9^s.03$	9	$13''.38$	24
5	8.02	8	65.98	29	57.12	6	48.15	25	8.94	9	13.62	25
6	8.10	8	65.69	31	57.06	5	47.90	25	8.85	8	13.87	26
7	8.18	9	65.38	33	57.01	6	47.65	26	8.77	9	14.13	28
8	8.27	9	65.05	34	56.95	7	47.39	28	8.68	10	14.41	28
9	8.36	11	64.71	35	56.88	6	47.11	30	8.58	11	14.69	30
10	8.47	15	64.36	36	56.82	6	46.81	32	8.47	12	14.99	29
11	8.62	17	64.00	35	56.76	5	46.49	34	8.35	13	15.28	27
12	8.79	20	63.65	34	56.71	4	46.15	35	8.22	13	15.55	25
13	8.99	22	63.31	32	56.67	4	45.80	33	8.09	14	15.80	23
14	9.21	23	62.99	30	56.63	2	45.47	33	7.95	13	16.03	22
15	9.44	23	62.69	29	56.61	2	45.14	31	7.82	13	16.25	20
16	9.67	22	62.40	28	56.59	2	44.83	31	7.69	12	16.45	19
17	9.89	19	62.12	27	56.57	2	44.52	29	7.57	11	16.64	18
18	10.08	18	61.85	27	56.55	2	44.23	27	7.46	11	16.82	20
19	10.26	17	61.58	28	56.53	3	43.96	27	7.35	11	17.02	21
20	10.43	16	61.30	29	56.50	3	43.69	28	7.24	11	17.23	22
21	10.59	16	61.01	30	56.47	3	43.41	30	7.13	11	17.45	22
22	10.75	18	60.71	33	56.44	4	43.11	31	7.02	12	17.67	24
23	10.93	21	60.38	33	56.40	4	42.80	33	6.90	14	17.91	24
24	11.14	24	60.05	34	56.36	2	42.47	35	6.76	15	18.15	24
25	11.38	27	59.71	33	56.34	2	42.12	36	6.61	15	18.39	21
26	11.65	29	59.38	31	56.32	1	41.76	36	6.46	16	18.60	19
27	11.94	31	59.07	29	56.31	0	41.40	35	6.30	15	18.79	17
28	12.25	32	58.78	28	56.31	0	41.05	34	6.15	15	18.96	16
29	12.57	32	58.50	26	56.31	1	40.71	33	6.00	15	19.12	14
30	12.89	30	58.24	25	56.32	1	40.38	31	5.85	15	19.26	13
31	13.19	29	57.99	25	56.33	2	40.07	31	5.70	14	19.39	13
Aug. 1	13.48	27	57.74	25	56.35	1	39.76	30	5.56	13	19.52	14
2	13.75	27	57.49	26	56.36	0	39.46	31	5.43	13	19.66	15
3	14.02	26	57.23	28	56.36	0	39.15	31	5.30	14	19.81	16
4	14.28	27	56.95	29	56.36	0	38.84	33	5.16	14	19.97	18
5	14.55	29	56.66	30	56.36	1	38.51	35	5.02	16	20.15	17
6	14.84	31	56.36	31	56.35	1	38.16	36	4.86	17	20.32	18
7	15.15	34	56.05	30	56.36	1	37.80	38	4.69	17	20.50	16
8	15.49	36	55.75	29	56.37	1	37.42	39	4.52	18	20.66	15
9	15.85	39	55.46	28	56.38	3	37.03	38	4.34	19	20.81	13
10	16.24		55.18		56.41		36.65		4.15		20.94	
O. C.	$+0^s.44\cos\varphi$				$+0^s.15\cos\varphi$				$+0^s.16\cos\varphi$			
U. C.	$-0.44\cos\varphi$				$-0.15\cos\varphi$				$-0.16\cos\varphi$			

Obere Culmination.

Differences between consecutive days are given in the column "Diff." on the row of the earlier date.

1901	51 Hev. Cephei. $5^m.1$. AR.	Diff.	Decl.	Diff.	1 Hev. Draconis. $4^m.3$. AR.	Diff.	Decl.	Diff.	ε Ursae minoris. $4^m.3$. AR.	Diff.	Decl.	Diff.
	$6^h\ 54^m$		$+87°\ 11'$		$9^h\ 22^m$		$+81°\ 45'$		$16^h\ 55^m$		$+82°\ 12'$	
Aug. 10	16.24	40	55.18	27	56.41	3	36.65	37	64.15	18	20.94	10
11	16.64	40	54.91	24	{56.44 / 56.49	5 / 5	{36.28 / 35.93	35 / 35	63.97	16	21.04	8
12	17.04	39	54.67	22	56.54	4	35.58	33	63.81	17	21.12	7
13	17.43	38	54.45	21	56.58	4	35.25	31	63.64	16	21.19	6
14	17.81	36	54.24	20	56.62	4	34.94	31	63.48	14	21.25	7
15	18.17	35	54.04	21	56.66	3	34.63	31	63.34	16	21.32	9
16	18.52	33	53.83	22	56.69	3	34.32	31	63.18	15	21.41	9
17	18.85	32	53.61	24	56.72	2	34.01	33	63.03	15	21.50	10
18	19.17	34	53.37	25	56.74	2	33.68	35	62.88	16	21.60	11
19	19.51	35	53.12	25	56.76	3	33.33	36	62.72	16	21.71	11
20	19.86	38	52.87	27	56.79	4	32.97	37	62.56	17	21.82	11
21	20.24	41	52.60	26	56.83	5	32.60	38	62.39	19	21.93	10
22	20.65	43	52.34	24	56.88	5	32.22	37	62.20	19	22.03	8
23	21.08	45	52.10	23	56.93	7	31.85	36	62.01	18	22.11	5
24	21.53	47	51.87	21	57.00	8	31.49	34	61.83	19	22.16	3
25	22.00	46	51.66	19	57.08	8	31.15	33	61.64	19	22.19	0
26	22.46	45	51.47	17	57.16	7	30.82	32	61.45	18	22.19	1
27	22.91	44	51.30	17	57.23	7	30.50	31	61.27	17	22.20	0
28	23.35	42	51.13	16	57.30	6	30.19	30	61.10	16	22.20	0
29	23.77	41	50.97	18	57.36	6	29.89	31	60.94	16	22.20	2
30	24.18	40	50.79	18	57.42	6	29.58	32	60.78	16	22.22	3
31	24.58	40	50.61	20	57.48	6	29.26	33	60.62	17	22.25	3
Sept. 1	24.98	42	50.41	20	57.54	6	28.93	35	60.45	18	22.28	4
2	25.40	43	50.21	22	57.60	7	28.58	36	60.27	17	22.32	5
3	25.83	46	49.99	22	57.67	8	28.22	37	60.10	19	22.37	3
4	26.29	49	49.77	21	57.75	8	27.85	37	59.91	20	22.40	2
5	26.78	50	49.56	20	57.83	9	27.48	37	59.71	20	22.42	1
6	27.28	52	49.36	18	57.92	10	27.11	35	59.51	20	22.41	2
7	27.80	53	49.18	15	58.02	11	26.76	33	59.31	19	22.39	5
8	28.33	51	49.03	13	58.13	11	26.43	31	59.12	19	22.34	5
9	28.84	50	48.90	12	58.24	10	26.12	30	58.93	18	22.29	7
10	29.34	48	48.78	11	58.34	10	25.82	28	58.75	17	22.22	7
11	29.82	46	48.67	11	58.44	8	25.54	28	58.58	16	22.15	6
12	30.28	44	48.56	11	58.52	8	25.26	29	58.42	16	22.09	5
13	30.72	43	48.45	12	58.60	9	24.97	29	58.26	16	22.04	4
14	31.15	44	48.33	14	58.69	8	24.68	31	58.10	17	22.00	3
15	31.59		48.19		58.77		24.37		57.93		21.97	
O. C.	$+0^s.44\cos\varphi$				$+0^s.15\cos\varphi$				$+0^s.16\cos\varphi$			
U. C.	$-0.44\cos\varphi$				$-0.15\cos\varphi$				$-0.16\cos\varphi$			

Obere Culmination.

1901	51 Hev. Cephei. $5^m.1$.				1 Hev. Draconis. $4^m.3$.				ε Ursae minoris. $4^m.3$.			
	AR.		Decl.		AR.		Decl.		AR.		Decl.	
	$6^h\ 54^m$		$+87°\ 11'$		$9^h\ 22^m$		$+81°\ 45'$		$16^h\ 55^m$		$+82°\ 12'$	
Sept. 15	$31^s.59$	44	$48''.19$	15	$58^s.77$	8	$24''.37$	33	$57^s.93$	17	$21''.97$	2
16	32.03	47	48.04	16	58.85	9	24.04	33	57.76	18	21.95	2
17	32.50	50	47.88	15	58.94	10	23.71	34	57.58	19	21.93	3
18	33.00	52	47.73	15	59.04	11	23.37	34	57.39	19	21.90	5
19	33.52	53	47.58	13	59.15	12	23.03	33	57.20	20	21.85	8
20	34.05	55	47.45	11	59.27	12	22.70	31	57.00	19	21.77	10
21	34.60	56	47.34	9	59.39	13	22.39	30	56.81	19	21.67	12
22	35.16	54	47.25	7	59.52	14	22.09	27	56.62	18	21.55	14
23	35.70	53	47.18	5	59.66	13	21.82	26	56.44	17	21.41	14
24	36.23	51	47.13	5	59.79	12	21.56	25	56.27	16	21.27	13
25	36.74	48	47.08	5	59.91	12	21.31	26	56.11	16	21.14	13
26	37.22	47	47.03	7	60.03	11	21.05	27	55.95	15	21.01	12
27	37.69	48	46.96	7	60.14	10	20.78	27	55.80	16	20.89	10
28	38.17	48	46.89	9	60.24	11	20.51	29	55.64	17	20.79	9
29	38.65	49	46.80	9	60.35	12	20.22	30	55.47	17	20.70	9
30	39.14	51	46.71	11	60.47	13	19.92	32	55.30	18	20.61	10
Oct. 1	39.65	54	46.60	10	60.60	13	19.60	31	55.12	18	20.51	11
2	40.19	56	46.50	8	60.73	13	19.29	31	54.94	19	20.40	13
3	40.75	57	46.42	6	60.86	14	18.98	30	54.75	19	20.27	15
4	41.32	57	46.36	4	61.00	15	18.68	27	54.56	19	20.12	18
5	41.89	57	46.32	2	61.15	16	18.41	26	54.37	17	19.94	20
6	42.46	56	46.30	0	61.31	16	18.15	23	54.20	16	19.74	20
7	43.02	54	46.30	1	61.47	15	17.92	22	54.04	16	19.54	21
8	43.56	51	46.31	2	61.62	14	17.70	21	53.88	15	19.33	20
9	44.07	49	46.33	1	61.76	13	17.49	21	53.73	14	19.13	19
10	44.56	47	46.34	1	61.89	12	17.28	21	53.59	14	18.94	18
11	45.03	46	46.35	— 1	62.01	13	17.07	23	53.45	15	18.76	16
12	45.49	47	46.34	2	62.14	13	16.84	24	53.30	15	18.60	16
13	45.96	49	46.32	3	62.27	14	16.60	25	53.15	15	18.44	16
14	46.45	51	46.29	2	62.41	14	16.35	26	53.00	16	18.28	16
15	46.96	54	46.27	2	62.55	15	16.09	26	52.84	16	18.12	18
16	47.50	55	46.25	1	62.70	15	15.83	24	52.68	16	17.94	20
17	48.05	56	46.24	— 2	62.85	17	15.59	23	52.52	17	17.74	22
18	48.61	57	46.26	3	63.02	17	15.36	21	52.35	16	17.52	24
19	49.18	55	46.29	6	63.19	18	15.15	19	52.19	16	17.28	26
20	49.73	54	46.35	7	63.37	17	14.96	17	52.03	14	17.02	27
21	50.27	52	46.42	8	63.54	16	14.79	16	51.89	13	16.75	26
22	50.79		46.50		63.70		14.63		51.76		16.49	
O. C.	$+0^s.44\cos\varphi$				$+0^s.15\cos\varphi$				$+0^s.16\cos\varphi$			
U. C.	$-0\ .44\cos\varphi$				$-0\ .15\cos\varphi$				$-0\ .16\cos\varphi$			

Obere Culmination.

1901	51 Hev. Cephei. 5ᵐ.1.				1 Hev. Draconis. 4ᵐ.3.				ε Ursae minoris. 4ᵐ.3.			
	AR.		Decl.		AR.		Decl.		AR.		Decl.	
	6ʰ 54ᵐ		+87° 11′		9ʰ 23ᵐ		+81° 45′		16ʰ 55ᵐ		+82° 12′	
Oct. 22	50.79	50	46.50	9	3.70	16	14.63	15	51.76	12	16.49	25
23	51.29	48	46.59	7	3.86	15	14.48	16	51.64	13	16.24	25
24	51.77	47	46.66	6	4.01	15	14.32	17	51.51	12	15.99	23
25	52.24	46	46.72	5	4.16	14	14.15	18	51.39	13	15.76	22
26	52.70	48	46.77	4	4.30	14	13.97	19	51.26	13	15.54	21
27	53.18	50	46.81	3	4.44	15	13.78	21	51.13	13	15.33	22
28	53.68	50	46.84	4	4.59	16	13.57	21	51.00	14	15.11	22
29	54.18	53	46.88	5	4.75	18	13.36	20	50.86	15	14.89	24
30	54.71	55	46.93	6	4.93	18	13.16	18	50.71	15	14.65	26
31	55.26	55	46.99	8	5.11	19	12.98	17	50.56	14	14.39	28
Nov. 1	55.81	54	47.07	11	5.30	18	12.81	15	50.42	14	14.11	30
2	56.35	53	47.18	13	5.48	19	12.66	12	50.28	12	13.81	31
3	56.88	51	47.31	15	5.67	18	12.54	11	50.16	12	13.50	32
4	57.39	48	47.46	15	5.85	18	12.43	9	50.04	10	13.18	31
5	57.87	45	47.61	14	6.03	16	12.34	10	49.94	9	12.87	31
6	58.32	43	47.75	14	6.19	16	12.24	9	49.85	9	12.56	29
7	58.75	42	47.89	14	6.35	15	12.15	10	49.76	9	12.27	28
8	59.17	42	48.03	12	6.50	15	12.05	11	49.67	9	11.99	26
9	59.59	42	48.15	10	6.65	16	11.94	12	49.58	9	11.73	26
10	60.01	44	48.25	10	6.81	16	11.82	13	49.49	10	11.47	26
11	60.45	46	48.35	12	6.97	17	11.69	13	49.39	12	11.21	27
12	60.91	48	48.47	12	7.14	17	11.56	12	49.27	11	10.94	29
13	61.39	49	48.59	14	7.31	19	11.44	10	49.16	10	10.65	31
14	61.88	50	48.73	16	7.50	19	11.34	8	49.06	11	10.34	33
15	62.38	49	48.89	18	7.69	19	11.26	7	48.95	10	10.01	35
16	62.87	47	49.07	20	7.88	19	11.19	4	48.85	8	9.66	36
17	63.34	45	49.27	21	8.07	18	11.15	3	48.77	7	9.30	36
18	63.79	42	49.48	22	8.25	18	11.12	2	48.70	7	8.94	35
19	64.21	40	49.70	20	8.43	18	11.10	2	48.63	6	8.59	34
20	64.61	38	49.90	20	8.61	16	11.08	3	48.57	6	8.25	33
21	64.99	37	50.10	19	8.77	16	11.05	4	48.51	6	7.92	31
22	65.36	37	50.29	17	8.93	15	11.01	5	48.45	7	7.61	31
23	65.73	38	50.46	17	9.08	16	10.96	6	48.38	7	7.30	29
24	66.11	39	50.63	16	9.24	17	10.90	6	48.31	7	7.01	30
25	66.50	42	50.79	17	9.41	18	10.84	6	48.24	7	6.71	32
26	66.92	43	50.96	18	9.59	18	10.78	5	48.17	8	6.39	33
27	67.35	43	51.14	20	9.77	19	10.73	2	48.09	6	6.06	35
28	67.78		51.34		9.96		10.71		48.03		5.71	
O. C.	+ 0ˢ.44 cos φ				+ 0ˢ.15 cos φ				+ 0ˢ.16 cos φ			
U. C.	− 0 .44 cos φ				− 0 .15 cos φ				− 0 .16 cos φ			

Obere Culmination.

1901	51 Hev. Cephei. $5^m.1$. AR.		Decl.		1 Hev. Draconis. $4^m.3$. AR.		Decl.		ε Ursae minoris. $4^m.3$. AR.		Decl.	
	$6^h\ 55^m$		$+87°\ 11'$		$9^h\ 23^m$		$+81°\ 45'$		$16^h\ 55^m$		$+82°\ 11'$	
Nov. 28	7.78	43	51.34	23	9.96	20	10.71	−1	48.03	7	65.71	37
29	8.21	42	51.57	24	10.16	19	10.70	2	47.96	6	65.34	38
30	8.63	39	51.81	26	10.35	18	10.72	3	47.90	5	64.96	39
Dec. 1	9.02	36	52.07	27	10.53	18	10.75	6	47.85	3	64.57	39
2	9.38	33	52.34	28	10.71	17	10.81	7	47.82	3	64.18	37
3	9.71	30	52.62	27	10.88	16	10.88	6	47.79	1	63.81	36
4	10.01	29	52.89	25	11.04	14	10.94	6	47.78	1	63.45	34
5	10.30	27	53.14	23	11.18	15	11.00	4	47.77	1	63.11	33
6	10.57	27	53.37	23	11.33	15	11.04	3	47.76	1	62.78	31
7	10.84	28	53.60	22	11.48	16	11.07	3	47.75	2	62.47	31
									47.73	3	62.16	31
8	11.12	30	53.82	22	11.64	16	11.10	3	47.70	3	61.85	33
9	11.42	31	54.04	23	11.80	16	11.13	3	47.67	4	61.52	35
10	11.73	33	54.27	24	11.96	17	11.16	4	47.63	2	61.17	36
11	12.06	33	54.51	27	12.13	17	11.20	6	47.61	2	60.81	38
12	12.39	33	54.78	28	12.30	18	11.26	8	47.59	1	60.43	39
13	12.72	31	55.06	30	12.48	17	11.34	10	47.58	0	60.04	40
14	13.03	29	55.36	31	12.65	18	11.44	12	47.58	1	59.64	39
15	13.32	26	55.67	32	12.83	16	11.56	14	47.59	3	59.25	38
16	13.58	23	55.99	31	12.99	16	11.70	14	47.62	3	58.87	36
17	13.81	21	56.30	30	13.15	14	11.84	13	47.65	2	58.51	34
18	14.02	19	56.60	29	13.29	14	11.97	13	47.67	2	58.17	32
19	14.21	18	56.89	28	13.43	13	12.10	12	47.69	2	57.85	32
20	14.39	19	57.17	25	13.56	14	12.22	10	47.71	2	57.53	30
21	14.58	19	57.42	25	13.70	14	12.32	9	47.73	0	57.23	32
22	14.77	21	57.67	26	13.84	14	12.41	10	47.73	1	56.91	33
23	14.98	22	57.93	27	13.98	15	12.51	10	47.74	1	56.58	35
24	15.20	22	58.20	28	14.13	15	12.61	12	47.75	1	56.23	36
25	15.42	23	58.48	30	14.28	16	12.73	13	47.76	3	55.87	38
26	15.65	22	58.78	32	14.44	16	12.86	16	47.79	4	55.49	38
27	15.87	19	59.10	33	14.60	15	13.02	18	47.83	4	55.11	38
28	16.06	16	59.43	35	14.75	15	13.20	20	47.87	6	54.73	37
29	16.22	13	59.78	35	14.90	14	13.40	21	47.93	6	54.36	35
30	16.35	10	60.13	34	15.04	12	13.61	22	47.99	7	54.01	33
31	16.45	8	60.47	33	15.16	12	13.83	22	48.06	8	53.68	31
32	16.53		60.80		15.28		14.05		48.14		53.37	
O. C.	$+0^s.44 \cos\varphi$				$+0^s.15 \cos\varphi$				$+0^s.16 \cos\varphi$			
U. C.	$-0.44 \cos\varphi$				$-0.15 \cos\varphi$				$-0.16 \cos\varphi$			

Obere Culmination.

1901	δ Ursae minoris. 4ᵐ.3. AR.		Decl.		λ Ursae minoris. 6ᵐ.4. AR.		Decl.		76 Draconis. 6ᵐ.0. AR.		Decl.	
	18ʰ 3ᵐ		+86° 36′		19ʰ 19ᵐ		+88° 59′		20ʰ 49ᵐ		+82° 10′	
Jan. 1	44.68		49.80		52.17		33.14		38.49		11.90	
2	44.65	3	49.49	31	51.72	45	32.87	27	38.39	10	11.68	22
3	44.63	2	49.16	33	51.23	49	32.60	27	38.30	9	11.45	23
4	44.62	1	48.82	34	50.73	50	32.30	30	38.20	10	11.21	24
5	44.62	0	48.46	36	50.24	49	31.98	32	38.09	11	10.96	25
6	44.65	3	48.10	36	49.79	45	31.65	33	37.98	11	10.69	27
7	44.70	5	47.73	37	49.42	37	31.31	34	37.88	10	10.40	29
8	44.78	8	47.37	36	{49.13 {48.93	29 20	{30.95 {30.59	36 36	37.79	9	10.08	32
9	44.89	11	47.02	35	48.82	11	30.24	35	37.71	8	9.76	32
10	45.00	11	46.69	33	48.78	4	29.91	33	37.64	7	9.43	33
11	45.12	12	46.37	32	48.78	0	29.58	33	37.58	6	9.11	32
12	45.24	12	46.08	29	48.78	0	29.27	31	37.54	4	8.80	31
13	45.35	11	45.80	28	48.76	2	28.98	29	37.49	5	8.51	29
14	45.45	10	45.52	28	48.71	5	28.69	29	37.43	6	8.23	28
15	45.53	8	45.23	29	48.61	10	28.41	28	37.38	5	7.96	27
16	45.61	8	44.93	30	48.48	13	28.11	30	37.32	6	7.69	27
17	45.69	8	44.61	32	48.34	14	27.80	31	37.26	6	7.42	27
18	45.78	9	44.29	32	48.20	14	27.47	33	37.20	6	7.14	28
19	45.88	10	43.95	34	48.10	10	27.13	34	37.13	7	6.84	30
20	46.01	13	43.61	34	48.08	2	26.78	35	37.07	6	6.52	32
21	46.17	16	43.27	34	48.14	6	26.42	36	37.01	6	6.18	34
22	46.34	17	42.94	33	48.27	13	26.05	37	36.96	5	5.83	35
23	46.53	19	42.62	32	48.48	21	25.70	35	36.92	4	5.48	35
24	46.74	21	42.33	29	48.75	27	25.38	32	36.88	4	5.13	35
25	46.94	20	42.06	27	49.05	30	25.07	31	36.85	3	4.79	34
26	47.13	19	41.80	26	49.35	30	24.78	29	36.84	1	4.47	32
27	47.32	19	41.55	25	49.63	28	24.51	27	36.84	0	4.16	31
28	47.50	18	41.31	24	49.86	23	24.23	28	36.83	1	3.87	29
29	47.67	17	41.06	25	50.06	20	23.95	28	36.81	2	3.59	28
30	47.83	16	40.80	26	50.24	18	23.67	28	{36.79 {36.77	2 2	{3.30 {3.01	29 29
31	47.99	16	40.53	27	50.43	19	23.37	30	36.74	3	2.69	32
Febr. 1	48.17	18	40.24	29	50.64	21	23.05	32	36.71	3	2.36	33
2	48.38	21	39.95	29	50.91	27	22.71	34	36.69	2	2.02	34
3	48.61	23	39.65	30	51.26	35	22.36	35	36.68	1	1.66	36
4	48.87	26	39.36	29	51.69	43	22.02	34	36.68	0	1.29	37
5	49.14	27	39.08	28	52.22	53	21.68	34	36.69	1	0.92	37
O. C.	+ 0ˢ.36 cos φ				+ 1ˢ.22 cos φ				+ 0ˢ.16 cos φ			
U. C.	— 0 .36 cos φ				— 1 .22 cos φ				— 0 .16 cos φ			

Obere Culmination.

1901	δ Ursae minoris. 4^m^.3.				λ Ursae minoris. 6^m^.4.				76 Draconis. 6^m^.0.			
	AR.		Decl.		AR.		Decl.		AR.		Decl.	
	18h 3m		+86° 36′		19h 19m		+88° 59′		20h 49m		+82° 9′	
	s		″		s		″		s		″	
Febr. 5	49.14	28	39.08	25	52.22	62	21.68	32	36.69	2	60.92	36
6	49.42	30	38.83	23	52.84	66	21.36	30	36.71	3	60.56	35
7	49.72	30	38.60	22	53.50	66	21.06	28	36.74	3	60.21	33
8	50.02	29	38.38	20	54.16	65	20.78	26	36.77	4	59.88	32
9	50.31	27	38.18	19	54.81	62	20.52	25	36.81	3	59.56	30
10	50.58	26	37.99	18	55.43	58	20.27	24	36.84	3	59.26	30
11	50.84	25	37.81	19	56.01	54	20.03	25	36.87	3	58.96	30
12	51.09	24	37.62	20	56.55	51	19.78	26	36.90	2	58.66	29
13	51.33	24	37.42	22	57.06	50	19.52	27	36.92	2	58.37	30
14	51.57	25	37.20	22	57.56	53	19.25	29	36.94	2	58.07	33
15	51.82	28	36.98	24	58.09	58	18.96	29	36.96	2	57.74	34
16	52.10	30	36.74	23	58.67	65	18.67	30	36.98	3	57.40	34
17	52.40	33	36.51	22	59.32	74	18.37	30	37.01	4	57.06	36
18	52.73	34	36.29	21	60.06	81	18.07	28	37.05	5	56.70	35
19	53.07	34	36.08	18	60.87	87	17.79	27	37.10	6	56.35	34
20	53.41	36	35.90	16	61.74	90	17.52	25	37.16	7	56.01	32
21	53.77	34	35.74	13	62.64	90	17.27	22	37.23	7	55.69	31
22	54.11	33	35.61	12	63.54	88	17.05	20	37.30	7	55.38	28
23	54.44	31	35.49	11	64.42	84	16.85	20	37.37	7	55.10	27
24	54.75	30	35.38	12	65.26	79	16.65	19	37.44	6	54.83	25
25	55.05	30	35.26	12	66.05	77	16.46	19	37.50	7	54.58	27
26	55.35	29	35.14	12	66.82	75	16.27	20	37.57	6	54.31	27
27	55.64	30	35.02	14	67.57	75	16.07	22	37.63	5	54.04	28
28	55.94	31	34.88	15	68.32	79	15.85	23	37.68	6	53.76	29
März 1	56.25	34	34.73	16	69.11	86	15.62	25	37.74	6	53.47	31
2	56.59	36	34.57	15	69.97	95	15.37	24	37.80	7	53.16	33
3	56.95	37	34.42	13	70.92	102	15.13	23	37.87	8	52.83	32
4	57.32	39	34.29	12	71.94	110	14.90	22	37.95	10	52.51	30
5	57.71	40	34.17	10	73.04	115	14.68	20	38.05	11	52.21	30
6	58.11	40	34.07	7	74.19	117	14.48	18	38.16	11	51.91	28
7	58.51	39	34.00	5	75.36	116	14.30	15	38.27	11	51.63	26
8	58.90	37	33.95	4	76.52	113	14.15	13	38.38	11	51.37	24
9	59.27	36	33.91	2	77.65	107	14.02	13	38.49	11	51.13	22
10	59.63	34	33.89	2	78.72	102	13.89	12	38.60	11	50.91	21
11	59.97	32	33.87	3	79.74	96	13.77	13	38.71	10	50.70	22
12	60.29	32	33.84	5	80.70	94	13.64	14	38.81	10	50.48	23
13	60.61	33	33.79	6	81.64	95	13.50	15	38.91	9	50.25	23
14	60.94		33.73		82.59		13.35		39.00		50.02	
O. C.	+ 0s.36 cos φ				+ 1s.21 cos φ				+ 0s.16 cos φ			
U. C.	— 0 .36 cos φ				— 1 .21 cos φ				— 0 .16 cos φ			

Obere Culmination.

1901	δ Ursae minoris. $4^m.3$. AR.		δ Ursae minoris. Decl.		λ Ursae minoris. $6^m.4$. AR.		λ Ursae minoris. Decl.		76 Draconis. $6^m.0$. AR.		76 Draconis. Decl.	
	$18^h\ 4^m$		$+86°\ 36'$		$19^h\ 20^m$		$+88°\ 59'$		$20^h\ 49^m$		$+82°\ 9'$	
	s		"		s		"		s		"	
März 14	0.94	34	33.73	6	22.59	99	13.35	16	39.00	9	50.02	25
15	1.28	35	33.67	7	23.58	104	13.19	17	39.09	10	49.77	25
16	1.63	38	33.60	6	24.62	111	13.02	16	39.19	10	49.52	26
17	2.01	39	33.54	5	25.73	117	12.86	15	39.29	12	49.26	25
18	2.40	40	33.49	3	26.90	123	12.71	13	39.41	12	49.01	25
19	2.80	40	33.46	0	28.13	126	12.58	11	39.53	13	48.76	23
20	3.20	39	33.46	3	29.39	126	12.47	9	39.66	14	48.53	20
21	3.59	38	33.49	4	30.65	125	12.38	7	39.80	15	48.33	18
22	3.97	37	33.53	6	31.90	120	12.31	5	39.95	14	48.15	16
23	4.34	35	33.59	6	33.10	113	12.26	4	40.09	13	47.99	15
24	4.69	33	33.65	6	34.23	108	12.22	5	40.22	13	47.84	15
25	5.02	32	33.71	5	35.31	105	12.17	5	40.35	12	47.69	15
26	5.34	32	33.76	3	36.36	104	12.12	6	40.47	12	47.54	15
27	5.66	32	33.79	3	37.40	105	12.06	7	40.59	12	47.39	17
28	5.98	35	33.82	1	38.45	110	11.99	8	40.71	13	47.22	18
29	6.33	37	33.83	2	39.55	116	11.91	9	40.84	13	47.04	19
30	6.70	38	33.85	3	40.71	122	11.82	8	40.97	13	46.85	19
31	7.08	39	33.88	5	41.93	130	11.74	6	41.10	15	46.66	19
April 1	7.47	39	33.93	7	43.23	135	11.68	4	41.25	16	46.47	17
2	7.86	40	34.00	9	44.58	136	11.64	2	41.41	17	46.30	15
3	8.26	39	34.09	12	45.94	135	11.62	1	41.58	17	46.15	13
4	8.65	37	34.21	13	47.29	132	11.61	— 2	41.75	17	46.02	11
5	9.02	34	34.34	14	48.61	126	11.63	3	41.92	16	45.91	9
6	9.36	33	34.48	14	49.87	120	11.66	4	42.08	16	45.82	7
7	9.69	31	34.62	14	51.07	113	11.70	4	42.24	14	45.75	7
8	10.00	31	34.76	13	52.20	108	11.74	4	42.38	14	45.68	7
9	10.31	29	34.89	12	53.28	107	11.78	2	42.52	14	45.61	8
10	10.60	31	35.01	10	54.35	108	11.80	1	42.66	13	45.53	10
11	10.91	32	35.11	10	55.43	111	11.81	0	42.79	13	45.43	10
12	11.23	33	35.21	11	56.54	115	11.81	0	42.92	15	45.33	10
13	11.56	34	35.32	12	57.69	122	11.81	1	43.07	15	45.23	11
14	11.90	35	35.44	13	58.91	127	11.82	3	43.22	16	45.12	9
15	12.25	35	35.57	16	60.18	129	11.85	4	43.38	17	45.03	7
16	12.60	35	35.73	18	61.47	129	11.89	7	43.55	18	44.96	6
17	12.95	33	35.91	20	62.76	128	11.96	10	43.73	18	44.90	3
18	13.28	31	36.11	20	64.04	123	12.06	11	43.91	17	44.87	0
19	13.59	29	36.31	22	65.27	115	12.17	12	44.08	16	44.87	0
20	13.88		36.53		66.42		12.29		44.24		44.87	
O. C.	$+ 0^s.36 \cos\varphi$				$+ 1^s.21 \cos\varphi$				$+ 0^s.16 \cos\varphi$			
U. C.	$- 0 .36 \cos\varphi$				$- 1 .21 \cos\varphi$				$- 0 .16 \cos\varphi$			

Obere Culmination.

1901	δ Ursae minoris. 4m.3.				λ Ursae minoris. 6m.4.				76 Draconis. 6m.0.			
	AR.		Decl.		AR.		Decl.		AR.		Decl.	
	18h 4m		+86° 36′		19h 21m		+88° 59′		20h 49m		+82° 9′	
April 20	13.88	27	36.53	23	6.42	108	12.29	13	44.24	16	44.87	1
21	14.15	25	36.76	21	7.50	103	12.42	12	44.40	15	44.88	2
22	14.40	24	36.97	20	8.53	100	12.54	11	44.55	15	44.90	1
23	14.64	25	37.17	18	9.53	99	12.65	10	44.70	15	44.91	0
24	14.89	26	37.35	17	10.52	101	12.75	8	44.85	14	44.91	1
25	15.15	27	37.52	17	11.53	105	12.83	9	44.99	15	44.90	2
26	15.42	29	37.69	18	12.58	111	12.92	8	45.14	15	44.88	2
27	15.71	30	37.87	19	13.69	117	13.00	9	45.29	16	44.86	2
28	16.01	30	38.06	21	14.86	122	13.09	10	45.45	17	44.84	1
29	16.31	31	38.27	23	16.08	124	13.19	13	45.62	18	44.83	1
30	16.62	29	38.50	25	17.32	123	13.32	15	45.80	19	44.84	3
Mai 1	16.91	28	38.75	27	18.55	118	13.47	18	45.99	18	44.87	6
2	17.19	26	39.02	28	19.73	113	13.65	18	46.17	18	44.93	7
3	17.45	23	39.30	27	20.86	106	13.83	20	46.35	17	45.00	9
4	17.68	22	39.57	28	21.92	97	14.03	20	46.52	16	45.09	10
5	17.90	19	39.85	27	22.89	90	14.23	19	46.68	15	45.19	10
6	18.09	18	40.12	25	23.79	88	14.42	18	46.83	14	45.29	8
7	18.27	19	40.37	24	24.67	86	14.60	17	46.97	14	45.37	8
8	18.46	19	40.61	23	25.53	87	14.77	16	47.11	14	45.45	8
9	18.65	21	40.84	23	26.40	90	14.93	15	47.25	14	45.53	7
10	18.86	21	41.07	23	27.30	96	15.08	16	47.39	16	45.60	6
11	19.07	22	41.30	24	28.26	99	15.24	17	47.55	16	45.66	7
12	19.29	23	41.54	26	29.25	102	15.41	18	47.71	16	45.73	8
13	19.52	22	41.80	29	30.27	103	15.59	21	47.87	16	45.81	11
14	19.74	20	42.09	31	31.30	100	15.80	23	48.03	18	45.92	13
15	19.94	19	42.40	32	32.30	96	16.03	25	48.21	16	46.05	14
16	20.13	16	42.72	33	33.26	88	16.28	27	48.37	16	46.19	16
17	20.29	13	43.05	32	34.14	79	16.55	28	48.53	15	46.35	19
18	20.42	12	43.37	32	34.93	73	16.83	27	48.68	15	46.54	19
19	20.54	10	43.69	31	35.66	67	17.10	25	48.83	14	46.73	18
20	20.64	11	44.00	29	36.33	65	17.35	23	48.97	13	46.91	17
21	20.75	11	44.29	27	36.98	65	17.58	22	49.10	13	47.08	17
22	20.86	12	44.56	26	37.63	68	17.80	21	49.23	12	47.25	15
23	20.98	13	44.82	27	38.31	73	18.01	21	49.35	13	47.40	13
24	21.11	14	45.09	28	39.04	77	18.22	21	49.48	14	47.53	14
25	21.25	15	45.37	29	39.81	82	18.43	23	49.62	15	47.67	15
26	21.40	16	45.66	30	40.63	84	18.66	25	49.77	15	47.82	17
27	21.56		45.96		41.47		18.91		49.92		47.99	
O. C.	+ 0s.36 cos φ				+ 1s.21 cos φ				+ 0s.16 cos φ			
U. C.	— 0 .36 cos φ				— 1 .21 cos φ				— 0 .16 cos φ			

Obere Culmination.

1901	δ Ursae minoris. $4^m.3$. AR.		δ Ursae minoris. $4^m.3$. Decl.		λ Ursae minoris. $6^m.4$. AR.		λ Ursae minoris. $6^m.4$. Decl.		76 Draconis. $6^m.0$. AR.		76 Draconis. $6^m.0$. Decl.	
	$18^h\ 4^m$		$+86°\ 36'$		$19^h\ 21^m$		$+88°\ 59'$		$20^h\ 49^m$		$+82°\ 9'$	
Mai 27	$21^s.56$	14	$45''.96$	32	$41^s.47$	85	$18''.91$	26	$49^s.92$	16	$47''.99$	17
28	21.70	13	46.28	34	42.32	81	19.17	29	50.08	16	48.16	20
29	21.83	11	46.62	36	43.13	74	19.46	30	50.24	16	48.36	22
30	21.94	8	46.98	36	43.87	67	19.76	31	50.40	14	48.58	24
31	22.02	6	47.34	35	44.54	59	20.07	32	50.54	14	48.82	25
Juni 1	22.08	4	47.69	35	45.13	50	20.39	31	50.68	12	49.07	25
2	22.12	2	48.04	32	45.63	44	20.70	29	50.80	12	49.32	24
3	22.14	2	48.36	30	46.07	42	20.99	27	50.92	11	49.56	23
4	22.16	2	48.66	30	46.49	41	21.26	27	51.03	10	49.79	22
5	22.18	4	48.96	28	46.90	44	21.53	25	51.13	11	50.01	21
6	22.22	4	49.24	29	47.34	47	21.78	26	51.24	11	50.22	21
7	22.26	5	49.53	29	47.81	51	22.04	27	51.35	12	50.43	20
8	22.31	6	49.82	31	48.32	54	22.31	28	51.47	12	50.63	22
9	22.37	5	50.13	32	48.86	55	22.59	29	51.59	13	50.85	24
10	22.42	3	50.45	35	49.41	53	22.88	32	51.72	13	51.09	26
11	22.45	2	50.80	36	49.94	49	23.20	34	51.85	13	51.35	28
12	22.47	1	51.16	37	50.43	41	23.54	35	51.98	12	51.63	30
13	22.48	— 2	51.53	37	50.84	33	23.89	35	52.10	12	51.93	31
14	22.46	5	51.90	36	51.17	26	24.24	34	52.22	10	52.24	32
15	22.41	7	52.26	35	51.43	19	24.58	34	52.32	9	52.56	32
16	22.34	7	52.61	32	51.62	14	24.92	32	52.41	9	52.88	30
17	22.27	8	52.93	31	51.76	12	25.24	30	52.50	8	53.18	28
18	22.19	6	53.24	30	51.88	14	25.54	30	52.58	8	53.46	27
19	22.13	5	53.54	28	52.02	18	25.84	29	52.66	9	53.73	26
20	22.08	4	53.82	29	52.20	23	26.13	28	52.75	8	53.99	25
21	22.04	2	54.11	30	52.43	27	26.41	29	52.83	9	54.24	26
22	22.02	2	54.41	31	52.70	30	26.70	30	52.92	10	54.50	27
23	22.00	3	54.72	33	53.00	30	27.00	33	53.02	10	54.77	28
24	21.97	4	55.05	35	53.30	28	27.33	34	53.12	10	55.05	29
25	21.93	6	55.40	36	53.58	23	27.67	36	53.22	10	55.34	32
26	21.87	8	55.76	37	53.81	16	28.03	36	53.32	10	55.66	34
27	21.79	11	56.13	36	53.97	7	28.39	37	53.42	8	56.00	35
28	21.68	13	56.49	35	54.04	— 2	28.76	36	53.50	8	56.35	36
29	21.55	15	56.84	33	54.02	9	29.12	35	53.58	6	56.71	35
30	21.40	16	57.17	30	53.93	13	29.47	33	53.64	5	57.06	34
Juli 1	21.24	15	57.47	29	53.80	15	29.80	32	53.69	5	57.40	33
2	21.09	14	57.76	28	53.65	13	30.12	30	53.74	5	57.73	31
3	20.95		58.04		53.52		30.42		53.79		58.04	
O. C.	$+ 0^s.36 \cos\varphi$				$+ 1^s.21 \cos\varphi$				$+ 0^s.16 \cos\varphi$			
U. C.	$- 0\ .36 \cos\varphi$				$- 1\ .21 \cos\varphi$				$- 0\ .16 \cos\varphi$			

Obere Culmination.

1901	δ Ursae minoris. $4^m.3$. AR.		δ Ursae minoris. Decl.		λ Ursae minoris. $6^m.4$. AR.		λ Ursae minoris. Decl.		76 Draconis. $6^m.0$. AR.		76 Draconis. Decl.	
	$18^h\ 4^m$		$+86°\ 36'$		$19^h\ 21^m$		$+88°\ 59'$		$20^h\ 49^m$		$+82°\ 9'$	
Juli 3	$20^s.95$	14	$58''.04$	28	$53^s.52$	11	$30''.42$	30	$53^s.79$	5	$58''.04$	30
4	20.81	13	58.32	27	53.41	7	30.72	29	53.84	6	58.34	30
5	20.68	12	58.59	29	53.34	4	31.01	30	53.90	6	58.64	30
6	20.56	11	58.88	30	53.30	1	31.31	32	53.96	6	58.94	31
7	20.45	12	59.18	32	53.29	2	31.63	34	54.02	7	59.25	33
8	20.33	14	59.50	33	53.27	7	31.97	36	54.09	7	59.58	35
9	20.19	16	59.83	35	53.20	12	32.33	37	54.16	6	59.93	36
10	20.03	18	60.18	34	53.08	21	32.70	37	54.22	5	60.29	38
11	19.85	21	60.52	33	52.87	29	33.07	38	54.27	4	60.67	39
12	19.64	23	60.85	32	52.58	37	33.45	37	54.31	3	61.06	39
13	19.41	24	61.17	31	52.21	42	33.82	34	54.34	2	61.45	38
14	19.17	24	61.48	28	51.79	44	34.16	33	54.36	2	61.83	36
15	18.93	24	61.76	27	51.35	43	34.49	31	54.38	2	62.19	35
16	18.69	22	62.03	25	50.92	41	34.80	30	54.40	1	62.54	33
17	18.47	21	62.28	25	50.51	36	35.10	30	54.41	2	62.87	32
18	18.26	19	62.53	24	50.15	32	35.40	29	54.43	2	63.19	32
19	18.07	18	62.77	26	49.83	29	35.69	30	54.45	3	63.51	32
20	17.89	19	63.03	28	49.54	26	35.99	32	54.48	4	63.83	33
21	17.70	20	63.31	30	49.28	26	36.31	33	54.52	4	64.16	35
22	17.50	21	63.61	30	49.02	31	36.64	35	54.56	3	64.51	37
23	17.29	23	63.91	30	48.71	38	36.99	35	54.59	2	64.88	38
24	17.06	25	64.21	30	48.33	47	37.34	37	54.61	1	65.26	39
25	16.81	28	64.51	29	47.86	55	37.71	35	54.62	1	65.65	39
26	16.53	29	64.80	28	47.31	62	38.06	34	54.63	0	66.04	40
27	16.24	31	65.08	26	46.69	68	38.40	33	54.63	1	66.44	38
28	15.93	31	65.34	23	46.01	70	38.73	31	54.62	2	66.82	37
29	15.62	30	65.57	22	45.31	70	39.04	29	54.60	3	67.19	36
30	15.32	28	65.79	20	44.61	67	39.33	27	54.57	2	67.55	34
31	15.04	28	65.99	21	43.94	63	39.60	28	54.55	2	67.89	33
Aug. 1	14.76	27	66.20	22	43.31	59	39.88	28	54.53	1	68.22	32
2	14.49	26	66.42	22	42.72	56	40.16	29	54.52	1	68.54	33
3	14.23	26	66.64	24	42.16	56	40.45	31	54.51	1	68.87	35
4	13.97	27	66.88	25	41.60	58	40.76	31	54.50	0	69.22	36
5	13.70	29	67.13	25	41.02	64	41.07	33	54.50	1	69.58	38
6	13.41	32	67.38	27	40.38	71	41.40	34	54.49	1	69.96	39
7	13.09	34	67.65	26	39.67	79	41.74	35	54.48	2	70.35	41
8	12.75	35	67.91	25	38.88	87	42.09	33	54.46	4	70.76	40
9	12.40		68.16		38.01		42.42		54.42		71.16	
O. C.	$+ 0^s.36 \cos\varphi$				$+ 1^s.22 \cos\varphi$				$+ 0^s.16 \cos\varphi$			
U. C.	$- 0.36 \cos\varphi$				$- 1.22 \cos\varphi$				$- 0.16 \cos\varphi$			

Obere Culmination.

1901	δ Ursae minoris. $4^m.3$.				λ Ursae minoris. $6^m.4$.				76 Draconis. $6^m.0$.			
	AR.		Decl.		AR.		Decl.		AR.		Decl.	
	$18^h\ 3^m$		$+86°\ 37'$		$19^h\ 20^m$		$+88°\ 59'$		$20^h\ 49^m$		$+82°\ 10'$	
Aug. 9	$72^s.40$	37	$8''.16$	22	$98^s.01$	92	$42''.42$	32	$54^s.42$	4	$11''.16$	39
10	72.03	38	8.38	20	97.09	96	42.74	29	54.38	6	11.55	38
11	71.65	38	8.58	18	96.13	96	43.03	28	54.32	6	11.93	36
12	71.27	36	8.76	16	95.17	94	43.31	26	54.26	5	12.29	34
13	70.91	33	8.92	16	94.23	90	43.57	24	54.21	6	12.63	32
14	70.58	32	9.08	15	93.33	84	43.81	24	54.15	5	12.95	32
15	70.26	31	9.23	17	92.49	80	44.05	25	54.10	4	13.27	31
16	69.95	31	9.40	18	91.69	76	44.30	26	54.06	4	13.58	32
17	69.64	32	9.58	19	90.93	76	44.56	27	54.02	3	13.90	33
18	69.32	32	9.77	21	90.17	79	44.83	29	53.99	4	14.23	35
19	69.00	34	9.98	20	89.38	83	45.12	29	53.95	4	14.58	37
20	68.66	36	10.18	21	88.55	91	45.41	30	53.91	5	14.95	37
21	68.30	38	10.39	20	87.64	100	45.71	31	53.86	6	15.32	38
22	67.92	40	10.59	18	86.64	108	46.02	29	53.80	7	15.70	38
23	67.52	42	10.77	17	85.56	112	46.31	27	53.73	8	16.08	37
24	67.10	41	10.94	14	84.44	116	46.58	25	53.65	8	16.45	35
25	66.69	40	11.08	12	83.28	116	46.83	23	53.57	9	16.80	33
26	66.29	39	11.20	11	82.12	114	47.06	21	53.48	9	17.13	32
27	65.90	39	11.31	10	80.98	110	47.27	20	53.39	9	17.45	31
28	65.51	37	11.41	10	79.88	105	47.47	20	53.30	8	17.76	30
29	65.14	36	11.51	11	78.83	102	47.67	22	53.22	8	18.06	30
30	64.78	35	11.62	12	77.81	99	47.89	22	53.14	7	18.36	31
31	64.43	36	11.74	14	76.82	100	48.11	24	53.07	7	18.67	33
Sept. 1	64.07	38	11.88	14	75.82	104	48.35	25	53.00	7	19.00	34
2	63.69	40	12.02	14	74.78	110	48.60	26	52.93	8	19.34	35
3	63.29	42	12.16	14	73.68	117	48.86	25	52.85	8	19.69	36
4	62.87	44	12.30	14	72.51	125	49.11	26	52.77	10	20.05	36
5	62.43	45	12.44	12	71.26	130	49.37	24	52.67	11	20.41	35
6	61.98	45	12.56	10	69.96	135	49.61	22	52.56	12	20.76	33
7	61.53	45	12.66	7	68.61	136	49.83	19	52.44	12	21.09	33
8	61.08	44	12.73	5	67.25	134	50.02	17	52.32	12	21.42	30
9	60.64	42	12.78	4	65.91	130	50.19	16	52.20	12	21.72	28
10	60.22	40	12.82	4	64.61	124	50.35	16	52.08	12	22.00	26
11	59.82	39	12.86	4	63.37	119	50.51	14	51.96	11	22.26	26
12	59.43	38	12.90	5	62.18	114	50.65	16	51.85	10	22.52	25
13	59.05	37	12.95	6	61.04	111	50.81	17	51.75	9	22.77	26
14	58.68	38	13.01	7	59.93	112	50.98	19	51.66	10	23.03	28
15	58.30		13.08		58.81		51.17		51.56		23.31	
O. C.	$+ 0^s.36 \cos\varphi$				$+ 1^s.22 \cos\varphi$				$+ 0^s.16 \cos\varphi$			
U. C.	$- 0.36 \cos\varphi$				$- 1.22 \cos\varphi$				$- 0.16 \cos\varphi$			

Obere Culmination.

1901	δ Ursae minoris. $4^m.3$. AR.		δ Ursae minoris. Decl.		λ Ursae minoris. $6^m.4$. AR.		λ Ursae minoris. Decl.		76 Draconis. $6^m.0$. AR.		76 Draconis. Decl.	
	$18^h\ 3^m$		$+86°\ 37'$		$19^h\ 20^m$		$+88°\ 59'$		$20^h\ 49^m$		$+82°\ 10'$	
	s		"		s		"		s		"	
Sept. 15	58.30	39	13.08	9	58.81	116	51.17	19	51.56	10	23.31	30
16	57.91	41	13.17	9	57.65	122	51.36	20	51.46	10	23.61	31
17	57.50	43	13.26	8	56.43	130	51.56	20	51.36	12	23.92	32
18	57.07	45	13.34	6	55.13	137	51.76	20	51.24	12	24.24	31
19	56.62	46	13.40	4	53.76	142	51.96	17	51.12	13	24.55	30
20	56.16	46	13.44	2	52.34	146	52.13	15	50.99	15	24.85	29
21	55.70	46	13.46	0	50.88	147	52.28	12	50.84	15	25.14	26
22	55.24	45	13.46	2	49.41	144	52.40	12	50.69	14	25.40	24
23	54.79	43	13.44	3	47.97	140	52.52	10	50.55	14	25.64	23
24	54.36	41	13.41	3	46.57	135	52.62	9	50.41	14	25.87	22
25	53.95	39	13.38	2	45.22	131	52.71	10	50.27	14	26.09	21
26	53.56	39	13.36	2	43.91	127	52.81	10	50.13	13	26.30	22
27	53.17	39	13.34	0	42.64	125	52.91	12	50.00	12	26.52	23
28	52.78	40	13.34	1	41.39	128	53.03	13	49.88	13	26.75	24
29	52.38	41	13.35	2	40.11	132	53.16	14	49.75	12	26.99	26
30	51.97	43	13.37	1	38.79	138	53.30	14	49.63	13	27.25	26
Oct. 1	51.54	45	13.38	0	37.41	145	53.44	14	49.50	14	27.51	26
2	51.09	47	13.38	0	35.96	151	53.58	12	49.36	15	27.77	26
3	50.62	47	13.38	3	34.45	156	53.70	11	49.21	16	28.03	25
4	50.15	47	13.35	6	32.89	156	53.81	8	49.05	17	28.28	23
5	49.68	45	13.29	8	31.33	156	53.89	6	48.88	17	28.51	21
6	49.23	44	13.21	9	29.77	152	53.95	4	48.71	17	28.72	19
7	48.79	42	13.12	10	28.25	145	53.99	3	48.54	16	28.91	16
8	48.37	40	13.02	10	26.80	138	54.02	2	48.38	15	29.07	15
9	47.97	38	12.92	9	25.42	133	54.04	3	48.23	14	29.22	16
10	47.59	38	12.83	8	24.09	128	54.07	4	48.09	14	29.38	16
11	47.21	37	12.75	6	22.81	127	54.11	5	47.95	14	29.54	17
12	46.84	38	12.69	6	21.54	129	54.16	7	47.81	14	29.71	18
13	46.46	39	12.63	5	20.25	134	54.23	7	47.67	14	29.89	19
14	46.07	41	12.58	5	18.91	140	54.30	7	47.53	15	30.08	20
15	45.66	43	12.53	6	17.51	146	54.37	7	47.38	16	30.28	19
16	45.23	44	12.47	8	16.05	152	54.44	5	47.22	16	30.47	19
17	44.79	45	12.39	11	14.53	155	54.49	3	47.06	17	30.66	18
18	44.34	44	12.28	13	12.98	156	54.52	0	46.89	18	30.84	16
19	43.90	42	12.15	15	11.42	155	54.52	1	46.71	18	31.00	13
20	43.48	39	12.00	17	9.87	150	54.51	4	46.53	18	31.13	11
21	43.09	39	11.83	17	8.37	144	54.47	4	46.35	17	31.24	10
22	42.70		11.66		6.93		54.43		46.18		31.34	
O. C.	$+0^s.36 \cos\varphi$				$+1^s.22 \cos\varphi$				$+0^s.16 \cos\varphi$			
U. C.	$-0.36 \cos\varphi$				$-1.22 \cos\varphi$				$-0.16 \cos\varphi$			

Obere Culmination.

1901	δ Ursae minoris. 4ᵐ.3.				λ Ursae minoris. 6ᵐ.4.				76 Draconis. 6ᵐ.0.			
	AR.		Decl.		AR.		Decl.		AR.		Decl.	
	$18^h\ 3^m$		+86° 37′		$19^h\ 19^m$		+88° 59′		$20^h\ 49^m$		+82° 10′	
Oct. 22	42.70	37	11.66	16	66.93	139	54.43	4	46.18	16	31.34	9
23	42.33	36	11.50	16	65.54	133	54.39	3	46.02	16	31.43	9
24	41.97	35	11.34	14	64.21	130	54.36	3	45.86	16	31.52	9
25	41.62	36	11.20	13	62.91	130	54.33	1	45.70	16	31.61	11
26	41.26	36	11.07	12	61.61	133	54.32	0	45.54	15	31.72	12
27	40.90	38	10.95	11	60.28	137	54.32	0	45.39	16	31.84	13
28	40.52	40	10.84	13	58.91	143	54.32	0	45.23	16	31.97	14
29	40.12	40	10.71	14	57.48	149	54.32	1	45.07	17	32.11	13
30	39.72	41	10.57	16	55.99	153	54.31	3	44.90	19	32.24	11
31	39.31	42	10.41	18	54.46	156	54.28	5	44.71	18	32.35	10
Nov. 1	38.89	40	10.23	20	52.90	154	54.23	7	44.53	19	32.45	8
2	38.49	38	10.03	21	51.36	149	54.16	9	44.34	18	32.53	5
3	38.11	36	9.82	23	49.87	143	54.07	11	44.16	19	32.58	3
4	37.75	33	9.59	23	48.44	137	53.96	12	43.97	18	32.61	2
5	37.42	31	9.36	23	47.07	128	53.84	12	43.79	17	32.63	1
6	37.11	30	9.13	21	45.79	122	53.72	11	43.62	16	32.64	1
7	36.81	30	8.92	20	44.57	120	53.61	9	43.46	15	32.65	2
8	36.51	29	8.72	19	43.37	118	53.52	9	43.31	15	32.67	2
9	36.22	31	8.53	18	42.19	121	53.43	7	43.16	15	32.69	4
10	35.91	32	8.35	18	40.98	126	53.36	7	43.01	15	32.73	5
11	35.59	33	8.17	19	39.72	132	53.29	8	42.86	17	32.78	6
12	35.26	34	7.98	20	38.40	136	53.21	9	42.69	17	32.84	4
13	34.92	35	7.78	22	37.04	140	53.12	10	42.52	17	32.88	2
14	34.57	35	7.56	25	35.64	141	53.02	13	42.35	18	32.90	1
15	34.22	33	7.31	27	34.23	139	52.89	15	42.17	18	32.91	−1
16	33.89	31	7.04	27	32.84	135	52.74	17	41.99	19	32.90	4
17	33.58	29	6.77	28	31.49	129	52.57	19	41.80	18	32.86	5
18	33.29	27	6.49	30	30.20	121	52.38	19	41.62	17	32.81	6
19	33.02	25	6.19	28	28.99	114	52.19	18	41.45	16	32.75	7
20	32.77	24	5.91	27	27.85	110	52.01	17	41.29	16	32.68	7
21	32.53	24	5.64	25	26.75	108	51.84	16	41.13	15	32.61	5
22	32.29	23	5.39	24	25.67	109	51.68	15	40.98	14	32.56	4
23	32.06	25	5.15	23	24.58	112	51.53	13	40.84	15	32.52	2
24	31.81	27	4.92	23	23.46	116	51.40	13	40.69	15	32.50	2
25	31.54	28	4.69	25	22.30	120	51.27	14	40.54	16	32.48	3
26	31.26	28	4.44	26	21.10	125	51.13	16	40.38	17	32.45	3
27	30.98	28	4.18	27	19.85	127	50.97	18	40.21	17	32.42	5
28	30.70		3.91		18.58		50.79		40.04		32.37	
O. C.	$+0^s.36 \cos\varphi$				$+1^s.22 \cos\varphi$				$+0^s.16 \cos\varphi$			
U. C.	$-0\ .36 \cos\varphi$				$-1\ .22 \cos\varphi$				$-0\ .16 \cos\varphi$			

Obere Culmination.

1901	δ Ursae minoris. 4ᵐ.3. AR.		δ Ursae minoris. Decl.		λ Ursae minoris. 6ᵐ.4. AR.		λ Ursae minoris. Decl.		76 Draconis. 6ᵐ.0. AR.		76 Draconis. Decl.	
	18ʰ 3ᵐ		+86° 36′		19ʰ 18ᵐ		+88° 59′		20ʰ 49ᵐ		+82° 10′	
Nov. 28	30ˢ.70	28	63″.91	30	78ˢ.58	126	50″.79	20	40ˢ.04	18	32″.37	7
29	30.42	26	63.61	31	77.32	122	50.59	22	39.86	18	32.30	10
30	30.16	23	63.30	33	76.10	115	50.37	25	39.68	18	32.20	12
Dec. 1	29.93	20	62.97	34	74.95	108	50.12	26	39.50	16	32.08	13
2	29.73	18	62.63	33	73.87	99	49.86	25	39.34	15	31.95	15
3	29.55	16	62.30	32	72.88	90	49.61	25	39.19	14	31.80	15
4	29.39	15	61.98	30	71.98	85	49.36	23	39.05	14	31.65	15
5	29.24	15	61.68	30	71.13	83	49.13	22	38.91	13	31.50	14
6	29.09	15	61.38	28	70.30	84	48.91	21	38.78	13	31.36	12
7	28.94	16	61.10	27	69.46	86	48.70	20	38.65	13	31.24	12
8	28.78	18	60.83	27	68.60	90	48.50	20	38.52	14	31.12	10
9	28.60	18	60.56	29	67.70	95	48.30	21	38.38	14	31.02	12
10	28.42	19	60.27	30	66.75	99	48.09	23	38.24	14	30.90	12
11	28.23	18	59.97	32	65.76	100	47.86	24	38.10	16	30.78	14
12	28.05	17	59.65	34	64.76	98	47.62	27	37.94	16	30.64	16
13	27.88	15	59.31	35	63.78	93	47.35	29	37.78	16	30.48	19
14	27.73	13	58.96	37	62.85	88	47.06	30	37.62	15	30.29	20
15	27.60	11	58.59	36	61.97	80	46.76	30	37.47	14	30.09	21
16	27.49	8	58.23	35	61.17	72	46.46	31	37.33	13	29.88	22
17	27.41	8	57.88	35	60.45	65	46.15	29	37.20	12	29.66	22
18	27.33	6	57.53	32	59.80	60	45.86	28	37.08	12	29.44	20
19	27.27	6	57.21	31	59.20	59	45.58	27	36.96	11	29.24	20
20	27.21	7	56.90	30	58.61	60	45.31	26	36.85	10	29.04	18
21	27.14	8	56.60	30	58.01	63	45.05	24	36.75	11	28.86	18
22	27.06	9	56.30	29	57.38	69	44.81	25	36.64	12	28.68	18
	26.97	10	56.01	31								
23	26.87	10	55.70	32	56.69	73	44.56	25	36.52	13	28.50	18
24	26.77	9	55.38	34	55.96	74	44.31	27	36.39	13	28.32	18
25	26.68	7	55.04	36	55.22	73	44.04	30	36.26	13	28.14	21
26	26.61	5	54.68	38	54.49	70	43.74	31	36.13	13	27.93	24
27	26.56	3	54.30	38	53.79	64	43.43	33	36.00	12	27.69	26
28	26.53	0	53.92	37	53.15	56	43.10	34	35.88	13	27.43	27
29	26.53	2	53.55	36	52.59	47	42.76	34	35.75	11	27.16	29
30	26.55	4	53.19	35	52.12	37	42.42	34	35.64	10	26.87	29
31	26.59	5	52.84	33	51.75	30	42.08	33	35.54	8	26.58	29
32	26.64		52.51		51.45		41.75		35.46		26.29	
O. C.	+ 0ˢ.36 cos φ				+ 1ˢ.22 cos φ				+ 0ˢ.16 cos φ			
U. C.	− 0 .36 cos φ				− 1 .22 cos φ				− 0 .16 cos φ			

1901	α Andromed. 2m.0. AR.		Decl. +		β Cassiopej. 2m.1. AR.		Decl. +		γ Pegasi. 2m.6. AR.		Decl. +		ι Ceti. 3m.3. AR.		Decl. −	
	0h 3m		28° 32′		0h 3m		58° 36′		0h 8m		14° 37′		0h 14m		9° 21′	
Jan. 0	17.02	14	52.6	9	54.61	31	35.7	7	9.07	12	69.1	9	23.75	12	81.1	5
10	16.88	13	51.7	12	54.30	29	35.0	13	8.95	11	68.2	10	23.63	11	81.6	5
20	16.75	12	50.5	15	54.01	27	33.7	18	8.84	10	67.2	10	23.52	10	82.1	3
30	16.63	11	49.0	16	53.74	24	31.9	21	8.74	9	66.2	11	23.42	9	82.4	1
Febr. 9	16.52	8	47.4	16	53.50	19	29.8	25	8.65	7	65.1	10	23.33	7	82.5	2
19	16.44	4	45.8	17	53.31	12	27.3	26	8.58	4	64.1	10	23.26	4	82.3	3
März 1	16.40	1	44.1	16	53.19	6	24.7	28	8.54	1	63.1	9	23.22	2	82.0	5
11	16.39	3	42.5	15	53.13	1	21.9	27	8.53	2	62.2	6	23.20	2	81.5	8
21	16.42	8	41.0	13	53.14	11	19.2	29	8.55	8	61.6	5	23.22	7	80.7	12
31	[21] 16.50	12	39.7	9	[21] 53.25	18	16.3	23	[23] 8.63	11	61.1	1	[24] 23.29	9	79.5	13
April 10	16.62	17	38.8	5	53.43	26	14.0	20	8.74	15	61.0	1	23.38	14	78.2	15
20	16.79	22	38.3	2	53.69	33	12.0	16	8.89	19	61.1	5	23.52	18	76.7	17
30	17.01	25	38.1	1	54.02	39	10.4	11	9.08	23	61.6	8	23.70	22	75.0	18
Mai 10	17.26	29	38.2	6	54.41	44	9.3	6	9.31	26	62.4	11	23.92	25	73.2	20
20	17.55	31	38.8	9	54.85	48	8.7	1	9.57	29	63.5	14	24.17	27	71.2	21
30	17.86	33	39.7	13	55.33	50	8.6	5	9.86	31	64.9	17	24.44	29	69.1	21
Juni 9	18.19	34	41.0	17	55.83	51	9.1	10	10.17	31	66.6	18	24.73	31	67.0	20
19	18.53	34	42.7	19	56.34	51	10.1	15	10.48	32	68.4	20	25.04	31	65.0	20
29	18.87	34	44.6	21	56.85	49	11.6	19	10.80	31	70.4	21	25.35	30	63.0	19
Juli 9	19.21	31	46.7	23	57.34	46	13.5	23	11.11	30	72.5	21	25.65	30	61.1	17
19	19.52	29	49.0	24	57.80	43	15.8	26	11.41	27	74.6	21	25.95	27	59.4	14
29	19.81	26	51.4	25	58.23	37	18.4	29	11.68	25	76.7	21	26.22	25	58.0	12
Aug. 8	20.07	22	53.9	24	58.60	32	21.3	31	11.93	21	78.8	19	26.47	22	56.8	9
18	20.29	18	56.3	24	58.92	26	24.4	33	12.14	18	80.7	18	26.69	18	55.9	6
28	20.47	14	58.7	24	59.18	20	27.7	33	12.32	14	82.5	16	26.87	14	55.3	4
Sept. 7	20.61	10	61.1	22	59.38	14	31.0	34	12.46	10	84.1	15	27.01	11	54.9	0
17	20.71	6	63.3	20	59.52	7	34.4	33	12.56	6	85.6	12	27.12	7	54.9	2
27	20.77	2	65.3	17	59.59	1	37.7	32	12.62	3	86.8	10	27.19	3	55.1	5
Oct. 7	20.79	1	67.0	16	59.60	4	40.9	30	12.65	0	87.8	8	27.22	0	55.6	6
17	20.78	4	68.6	13	59.56	10	43.9	27	12.65	3	88.6	5	27.22	3	56.2	8
27	20.74	7	69.9	10	59.46	16	46.6	24	12.62	6	89.1	4	27.19	6	57.0	9
Nov. 6	20.67	9	70.9	8	59.30	20	49.0	20	12.56	8	89.5	1	27.13	8	57.9	9
16	20.58	12	71.7	4	59.10	24	51.0	16	12.48	10	89.6	2	27.05	10	58.8	10
26	20.46	13	72.1	1	58.86	27	52.6	11	12.38	11	89.4	3	26.95	10	59.8	9
Dec. 6	20.33	13	72.2	2	58.59	29	53.7	6	12.27	11	89.1	5	26.85	12	60.7	9
16	20.20	15	72.0	5	58.30	31	54.3	0	12.16	12	88.6	6	26.73	12	61.6	8
26	20.05	14	71.5	9	57.99	31	54.3	5	12.04	13	88.0	8	26.61	12	62.4	7
36	19.91		70.6		57.68		53.8		11.91		87.2		26.49		63.1	
Mittl. Ort	16.10		38.1		53.45		13.1		8.20		59.3		22.99		82.3	
			1)				2)				3)				4)	

1901	12 Ceti. $6^m.0$.				ζ Cassiopej. $4^m.0$.				π Andromed. $4^m.0$.				δ Andromed. $3^m.3$.			
	AR.	Diff.	Decl. —	Diff.	AR.	Diff.	Decl. +	Diff.	AR.	Diff.	Decl. +	Diff.	AR.	Diff.	Decl. +	Diff.
	$0^h\ 24^m$		4° 29′		$0^h\ 31^m$		53° 21′		$0^h\ 31^m$		33° 10′		$0^h\ 34^m$		30° 19′	
Jan. 0	60.02	11	73.1	7	28.58	25	28.4	6	36.61	16	43.0	7	3.12	15	24.2	7
10	59.91	11	73.8	6	28.33	26	27.8	10	36.45	15	42.3	11	2.97	14	23.5	10
20	59.80	11	74.4	4	28.07	25	26.8	15	36.30	14	41.2	13	2.83	15	22.5	13
30	59.69	9	74.8	3	27.82	22	25.3	18	36.16	14	39.9	15	2.68	13	21.2	14
Febr. 9	59.60	8	75.1	1	27.60	19	23.5	22	36.02	12	38.4	17	2.55	10	19.8	16
19	59.52	5	75.2	0	27.41	14	21.3	23	35.90	8	36.7	17	2.45	8	18.2	16
März 1	59.47	3	75.2	3	27.27	8	19.0	25	35.82	4	35.0	17	2.37	5	16.6	16
11	59.44	1	74.9	5	27.19	3	16.5	25	35.78	1	33.3	17	2.32	0	15.0	15
21	59.45	6	74.4	8	27.16	6	14.0	27	35.77	5	31.6	16	2.32	5	13.5	15
31	^{27}59.51	8	73.6	10	^{29}27.22	11	11.3	22	^{29}35.82	10	30.0	12	^{30}2.37	9	12.0	11
April 10	59.59	13	72.6	13	27.33	19	9.1	19	35.92	15	28.8	10	2.46	14	10.9	8
20	59.72	17	71.3	14	27.52	26	7.2	15	36.07	19	27.8	6	2.60	19	10.1	4
30	59.89	21	69.9	16	27.78	32	5.7	11	36.26	25	27.2	2	2.79	24	9.7	1
Mai 10	60.10	24	68.3	18	28.10	37	4.6	7	36.51	28	27.0	2	3.03	27	9.6	3
20	60.34	27	66.5	20	28.47	41	3.9	2	36.79	31	27.2	6	3.30	30	9.9	7
30	60.61	29	64.5	20	28.88	44	3.7	3	37.10	33	27.8	10	3.60	33	10.6	10
Juni 9	60.90	30	62.5	21	29.32	45	4.0	8	37.43	35	28.8	13	3.93	34	11.6	14
19	61.20	31	60.4	20	29.77	46	4.8	13	37.78	36	30.1	16	4.27	34	13.0	17
29	61.51	30	58.4	19	30.23	45	6.1	17	38.14	35	31.7	19	4.61	35	14.7	19
Juli 9	61.81	30	56.5	18	30.68	44	7.8	20	38.49	33	33.6	22	4.96	33	16.6	21
19	62.11	28	54.7	16	31.12	41	9.8	24	38.82	32	35.8	23	5.29	31	18.7	22
29	62.39	25	53.1	14	31.53	37	12.2	26	39.14	29	38.1	24	5.60	28	20.9	24
Aug. 8	62.64	22	51.7	11	31.90	32	14.8	29	39.43	25	40.5	25	5.88	25	23.3	24
18	62.86	19	50.6	9	32.22	28	17.7	30	39.68	22	43.0	25	6.13	22	25.7	24
28	63.05	16	49.7	6	32.50	23	20.7	31	39.90	18	45.5	24	6.35	17	28.1	23
Sept. 7	63.21	11	49.1	4	32.73	17	23.8	31	40.08	13	47.9	24	6.52	14	30.4	22
17	63.32	8	48.7	0	32.90	12	26.9	31	40.21	10	50.3	22	6.66	10	32.6	20
27	63.40	4	48.7	2	33.02	7	30.0	30	40.31	6	52.5	21	6.76	6	34.6	19
Oct. 7	63.44	1	48.9	3	33.09	1	33.0	29	40.37	2	54.6	18	6.82	3	36.5	17
17	63.45	2	49.2	6	33.10	4	35.9	26	40.39	2	56.4	16	6.85	1	38.2	15
27	63.43	4	49.8	7	33.06	8	38.5	23	40.37	4	58.0	14	6.84	4	39.7	12
Nov. 6	63.39	7	50.5	7	32.98	13	40.8	20	40.33	7	59.4	10	6.80	7	40.9	9
16	63.32	8	51.2	8	32.85	16	42.8	16	40.26	10	60.4	8	6.73	9	41.8	6
26	63.24	10	52.0	9	32.69	20	44.4	12	40.16	12	61.2	4	6.64	11	42.4	4
Dec. 6	63.14	11	52.9	8	32.49	23	45.6	7	40.04	14	61.6	1	6.53	13	42.8	0
16	63.03	12	53.7	8	32.26	25	46.3	2	39.90	15	61.7	3	6.40	14	42.8	3
26	62.91	12	54.5	7	32.01	26	46.5	3	39.75	15	61.4	6	6.26	15	42.5	7
36	62.79		55.2		31.75		46.2		39.60		60.8		6.11		41.8	
Mittl. Ort	59.17		75.7		27.15		7.4		35.43		27.6		1.95		9.8	
			339)				6)				7)				9)	

1901	α Cassiopejae. 2.2 ... 2ᵐ.8. AR.	Diff.	Decl. +	Diff.	β Ceti. 2ᵐ.0. AR.	Diff.	Decl. −	Diff.	21 Cassiopej. 6ᵐ.0. AR.	Diff.	Decl. +	Diff.	o Cassiopej. 5ᵐ.0. AR.	Diff.	Decl. +	Diff.
	0ʰ 34ᵐ		55° 59′		0ʰ 38ᵐ		18° 31′		0ʰ 39ᵐ		74° 26′		0ʰ 39ᵐ		47° 44′	
Jan. 0	54.59	28	61.2	4	38.04	13	51.3	5	8.58	70	73.3	1	13.69	22	52.4	5
10	54.31	28	60.8	10	37.91	13	51.8	3	7.88	70	73.2	6	13.47	22	51.9	10
20	54.03	27	59.8	14	37.78	12	52.1	0	7.18	66	72.6	13	13.25	21	50.9	14
30	53.76	25	58.4	18	37.66	11	52.1	2	6.52	61	71.3	18	13.04	19	49.5	17
Febr. 9	53.51	21	56.6	22	37.55	9	51.9	6	5.91	52	69.5	22	12.85	17	47.8	20
19	53.30	15	54.4	24	37.46	7	51.3	8	5.39	41	67.3	26	12.68	12	45.8	22
März 1	53.15	11	52.0	26	37.39	5	50.5	10	4.98	29	64.7	29	12.56	8	43.6	23
11	53.04	4	49.4	26	37.34	1	49.5	13	4.69	14	61.8	30	12.48	3	41.3	23
21	53.00	5	46.8	27	37.33	4	48.2	15	4.55	1	58.8	30	12.45	3	39.0	22
31	[30] 53.05	12	44.1	23	37.37	7	46.7	20	4.56	20	55.8	32	12.48	11	36.8	21
April 10	53.17	20	41.8	21	[31] 37.44	11	44.7	21	[31] 4.76	34	52.6	27	[31] 12.59	17	34.7	17
20	53.37	27	39.7	17	37.55	16	42.6	21	5.10	47	49.9	24	12.76	22	33.0	14
30	53.64	32	38.0	12	37.71	20	40.5	23	5.57	61	47.5	19	12.98	28	31.6	9
Mai 10	53.96	39	36.8	8	37.91	23	38.2	23	6.18	71	45.6	15	13.26	33	30.7	5
20	54.35	43	36.0	4	38.14	26	35.9	23	6.89	79	44.1	10	13.59	36	30.2	1
30	54.78	46	35.6	2	38.40	29	33.6	23	7.68	86	43.1	4	13.95	40	30.1	4
Juni 9	55.24	48	35.8	7	38.69	31	31.3	22	8.54	89	42.7	1	14.35	41	30.5	9
19	55.72	49	36.5	12	39.00	32	29.1	20	9.43	91	42.8	7	14.76	42	31.4	13
29	56.21	48	37.7	16	39.32	31	27.1	18	10.34	90	43.5	12	15.18	42	32.7	17
Juli 9	56.69	46	39.3	20	39.63	31	25.3	16	11.24	87	44.7	16	15.60	40	34.4	20
19	57.15	43	41.3	23	39.94	29	23.7	13	12.11	81	46.3	21	16.00	37	36.4	23
29	57.58	40	43.6	26	40.23	27	22.4	9	12.92	75	48.4	26	16.37	35	38.7	26
Aug. 8	57.98	35	46.2	29	40.50	25	21.5	6	13.67	66	51.0	29	16.72	31	41.3	27
18	58.33	29	49.1	30	40.75	20	20.9	2	14.33	57	53.9	32	17.03	27	44.0	28
28	58.62	25	52.1	32	40.95	17	20.7	2	14.90	46	57.1	34	17.30	21	46.8	29
Sept. 7	58.87	19	55.3	32	41.12	13	20.9	4	15.36	35	60.5	35	17.51	17	49.7	30
17	59.06	13	58.5	32	41.25	10	21.3	8	15.71	23	64.0	36	17.68	12	52.7	28
27	59.19	7	61.7	31	41.35	5	22.1	10	15.94	12	67.6	37	17.80	8	55.5	28
Oct. 7	59.26	1	64.8	29	41.40	2	23.1	12	16.06	0	71.3	35	17.88	3	58.3	26
17	59.27	3	67.7	27	41.42	1	24.3	13	16.06	12	74.8	34	17.91	2	60.9	23
27	59.24	9	70.4	25	41.41	5	25.6	14	15.94	23	78.2	31	17.89	6	63.2	21
Nov. 6	59.15	14	72.9	21	41.36	7	27.0	14	15.71	35	81.3	29	17.83	9	65.3	18
16	59.01	17	75.0	18	41.29	9	28.4	14	15.36	44	84.2	24	17.74	13	67.1	15
26	58.84	22	76.8	13	41.20	11	29.8	12	14.92	53	86.6	20	17.61	16	68.6	10
Dec. 6	58.62	24	78.1	8	41.09	12	31.0	11	14.39	61	88.6	14	17.45	19	69.6	6
16	58.38	27	78.9	3	40.97	12	32.1	9	13.78	67	90.0	9	17.26	20	70.2	1
26	58.11	28	79.2	2	40.85	14	33.0	6	13.11	69	90.9	3	17.06	22	70.3	3
36	57.83		79.0		40.71		33.6		12.42		91.2		16.84		70.0	
Mittl. Ort	53.06		39.8		37.21		48.7		6.10		48.8		12.26		33.0	
	10)				540)				340)				341)			

1901.	ζ Andromed. 4ᵐ.1. AR.		ζ Andromed. Decl. +		γ Cassiopej. 2ᵐ.0. AR.		γ Cassiopej. Decl. +		μ Andromed. 4ᵐ.0. AR.		μ Andromed. Decl. +		ε Piscium. 4ᵐ.0. AR.		ε Piscium. Decl. +	
	0ʰ 42ᵐ		23° 43′		0ʰ 50ᵐ		60° 10′		0ʰ 51ᵐ		37° 57′		0ʰ 57ᵐ		7° 21′	
Jan. 0	6ˢ.49	13	55″.4	7	45ˢ.54	33	71″.9	2	16ˢ.83	17	61″.5	6	49ˢ.36	12	32″.2	8
10	6.36	14	54.7	10	45.21	33	71.7	7	16.66	17	60.9	9	49.24	13	31.4	7
20	6.22	13	53.7	11	44.88	33	71.0	13	16.49	17	60.0	12	49.11	12	30.7	7
30	6.09	13	52.6	12	44.55	30	69.7	17	16.32	16	58.8	15	48.99	11	30.0	7
Febr. 9	5.96	10	51.4	13	44.25	26	68.0	20	16.16	14	57.3	17	48.88	10	29.3	7
19	5.86	8	50.1	13	43.99	21	66.0	24	16.02	11	55.6	18	48.78	9	28.6	5
März 1	5.78	4	48.8	13	43.78	15	63.6	26	15.91	8	53.8	19	48.69	5	28.1	4
11	5.74	2	47.5	12	43.63	7	61.0	26	15.83	3	51.9	18	48.64	3	27.7	2
21	5.72	3	46.3	9	43.56	1	58.4	27	15.80	2	50.1	17	48.61	2	27.5	0
31	5.75	9	45.4	8	43.57	10	55.7	27	15.82	9	48.4	17	48.63	6	27.5	2
April 10	5.84	13	44.6	5	43.67	19	53.0	23	15.91	13	46.7	12	48.69	10	27.7	5
20	5.97	17	44.1	1	43.86	27	50.7	20	16.04	19	45.5	10	48.79	15	28.2	8
30	6.14	22	44.0	2	44.13	34	48.7	15	16.23	23	44.5	5	48.94	18	29.0	10
Mai 10	6.36	25	44.2	6	44.47	40	47.2	11	16.46	28	44.0	2	49.12	22	30.0	13
20	6.61	28	44.8	8	44.87	45	46.1	7	16.74	32	43.8	2	49.34	26	31.3	14
30	6.89	31	45.6	12	45.32	50	45.4	1	17.06	34	44.0	7	49.60	28	32.7	17
Juni 9	7.20	32	46.8	15	45.82	53	45.3	4	17.40	36	44.7	10	49.88	30	34.4	18
19	7.52	33	48.3	18	46.35	53	45.7	8	17.76	37	45.7	14	50.18	30	36.2	19
29	7.85	33	50.1	19	46.88	54	46.5	14	18.13	37	47.1	17	50.48	32	38.1	19
Juli 9	8.18	32	52.0	20	47.42	52	47.9	17	18.50	37	48.8	20	50.80	30	40.0	19
19	8.50	30	54.0	21	47.94	49	49.6	22	18.87	34	50.8	22	51.10	29	41.9	19
29	8.80	28	56.1	22	48.43	45	51.8	25	19.21	31	53.0	23	51.39	27	43.8	17
Aug. 8	9.08	25	58.3	22	48.88	41	54.3	27	19.52	29	55.3	25	51.66	25	45.5	16
18	9.33	21	60.5	21	49.29	35	57.0	30	19.81	25	57.8	25	51.91	21	47.1	15
28	9.54	18	62.6	20	49.64	30	60.0	31	20.06	20	60.3	26	52.12	18	48.6	12
Sept. 7	9.72	14	64.6	19	49.94	24	63.1	33	20.26	17	62.9	25	52.30	15	49.8	10
17	9.86	10	66.5	17	50.18	17	66.4	32	20.43	13	65.4	24	52.45	12	50.8	7
27	9.96	7	68.2	15	50.35	11	69.6	33	20.56	8	67.8	23	52.57	7	51.5	5
Oct. 7	10.03	3	69.7	13	50.46	5	72.9	31	20.64	5	70.1	21	52.64	5	52.0	3
17	10.06	0	71.0	11	50.51	2	76.0	29	20.69	1	72.2	19	52.69	1	52.3	1
27	10.06	2	72.1	8	50.49	7	78.9	27	20.70	2	74.1	16	52.70	1	52.4	0
Nov. 6	10.04	5	72.9	6	50.42	13	81.6	24	20.68	6	75.7	14	52.69	3	52.4	3
16	9.99	8	73.5	4	50.29	18	84.0	20	20.62	9	77.1	11	52.66	6	52.1	4
26	9.91	10	73.9	1	50.11	23	86.0	16	20.53	12	78.2	7	52.60	8	51.7	4
Dec. 6	9.81	11	74.0	2	49.88	27	87.6	11	20.41	13	78.9	3	52.52	10	51.3	6
16	9.70	13	73.8	4	49.61	31	88.7	6	20.28	16	79.2	0	52.42	10	50.7	7
26	9.57	14	73.4	6	49.30	32	89.3	1	20.12	17	79.2	4	52.32	12	50.0	7
36	9.43		72.8		48.98		89.4		19.95		78.8		52.20		49.3	
Mittl. Ort	5.32		43.3		43.67		50.0		15.44		45.1		48.22		26.3	
		11)				13)				14)				15)		

1901	β Andromed. $2^m.3$.				υ Piscium. $4^m.1$.				ϑ Ceti. $3^m.0$.				δ Cassiopej. $2^m.8$.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. —		AR.		Decl. +	
	$1^h\ 4^m$		35° 5'		$1^h\ 14^m$		26° 44'		$1^h\ 19^m$		8° 41'		$1^h\ 19^m$		59° 43'	
Jan. 0	$12^s.68$	16	$60''.5$	5	$2^s.78$	14	$49''.7$	6	$5^s.60$	12	$39''.1$	8	$22^s.33$	31	$36''.5$	2
10	12.52	17	60.0	8	2.64	15	49.1	7	5.48	13	39.9	6	22.02	33	36.7	—4
20	12.35	16	59.2	11	2.49	15	48.4	10	5.35	13	40.5	4	21.69	33	36.3	9
30	12.19	16	58.1	13	2.34	14	47.4	11	5.22	12	40.9	2	21.36	31	35.4	14
Febr. 9	12.03	14	56.8	15	2.20	14	46.3	13	5.10	12	41.1	1	21.05	29	34.0	18
19	11.89	12	55.3	17	2.06	11	45.0	13	4.98	10	41.2	—2	20.76	25	32.2	21
März 1	11.77	8	53.6	17	1.95	7	43.7	13	4.88	8	41.0	5	20.51	19	30.1	24
11	11.69	4	51.9	17	1.88	5	42.4	13	4.80	4	40.5	7	20.32	12	27.7	25
21	11.65	0	50.2	16	1.83	0	41.1	11	4.76	1	39.8	9	20.20	4	25.2	26
31	11.65	7	48.6	15	1.83	5	40.0	9	4.75	—2	38.9	11	20.16	—4	22.6	26
April 10	[7] 11.72	12	47.1	11	[10] 1.88	10	39.1	8	[11] 4.77	8	37.8	16	[11] 20.20	14	20.0	25
20	11.84	16	46.0	9	1.98	14	38.3	4	4.85	12	36.2	16	20.34	22	17.5	21
30	12.00	22	45.1	5	2.12	19	37.9	1	4.97	16	34.6	18	20.56	30	15.4	18
Mai 10	12.22	26	44.6	1	2.31	23	37.8	—2	5.13	20	32.8	20	20.86	36	13.6	13
20	12.48	29	44.5	—3	2.54	27	38.0	6	5.33	23	30.8	20	21.22	42	12.3	9
30	12.77	33	44.8	6	2.81	31	38.6	9	5.56	26	28.8	21	21.64	47	11.4	5
Juni 9	13.10	35	45.4	10	3.12	32	39.5	12	5.82	29	26.7	22	22.11	51	10.9	—1
19	13.45	36	46.4	13	3.44	33	40.7	14	6.11	30	24.5	20	22.62	53	11.0	5
29	13.81	37	47.7	16	3.77	34	42.1	17	6.41	31	22.5	20	23.15	53	11.5	9
Juli 9	14.18	35	49.3	19	4.11	33	43.8	18	6.72	30	20.5	18	23.68	53	12.4	14
19	14.53	34	51.2	21	4.44	32	45.6	20	7.02	30	18.7	16	24.21	51	13.8	19
29	14.87	31	53.3	23	4.76	30	47.6	21	7.32	28	17.1	13	24.72	48	15.7	22
Aug. 8	15.18	29	55.6	23	5.06	28	49.7	21	7.60	25	15.8	11	25.20	45	17.9	25
18	15.47	26	57.9	23	5.34	25	51.8	21	7.85	23	14.7	7	25.65	40	20.4	28
28	15.73	21	60.2	24	5.59	21	53.9	20	8.08	20	14.0	4	26.05	34	23.2	28
Sept. 7	15.94	18	62.6	23	5.80	18	55.9	19	8.28	17	13.6	1	26.39	29	26.0	30
17	16.12	14	64.9	23	5.98	14	57.8	18	8.45	13	13.5	—2	26.68	23	29.0	31
27	16.26	10	67.2	21	6.12	10	59.6	16	8.58	9	13.7	4	26.91	18	32.1	31
Oct. 7	16.36	6	69.3	19	6.22	7	61.2	15	8.67	7	14.1	7	27.09	11	35.2	31
17	16.42	3	71.2	17	6.29	4	62.7	13	8.74	3	14.8	9	27.20	5	38.3	30
27	16.45	—1	72.9	15	6.33	1	64.0	10	8.77	0	15.7	10	27.25	—2	41.3	27
Nov. 6	16.44	4	74.4	13	6.34	—3	65.0	8	8.77	2	16.7	11	27.23	7	44.0	25
16	16.40	7	75.7	10	6.31	5	65.8	6	8.75	5	17.8	12	27.16	13	46.5	22
26	16.33	10	76.7	7	6.26	7	66.4	4	8.70	8	19.0	11	27.03	18	48.7	18
Dec. 6	16.23	12	77.4	3	6.19	10	66.8	1	8.62	9	20.1	11	26.85	23	50.5	14
16	16.11	14	77.7	0	6.09	12	66.9	—2	8.53	11	21.2	10	26.62	27	51.9	10
26	15.97	15	77.7	3	5.97	14	66.7	4	8.42	12	22.2	8	26.35	31	52.9	4
36	15.82		77.4		5.83		66.3		8.30		23.0		26.04		53.3	
Mittl. Ort	11.22		45.5		1.35		37.6		4.47		38.8		20.08		15.9	
			16)				18)				21)				20)	

1901	η Piscium. 3m.6.				40 Cassiopej. 5m.6.				υ Persei. 3m.6.				43 Cassiopej. 6m.0.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	1h 26m		14° 50′		1h 30m		72° 32′		1h 31m		48° 7′		1h 34m		67° 32′	
Jan. 0	12.40	13	15.3	7	39.12	58	30.0	6	56.67	21	53.8	1	63.04	42	53.7	5
10	12.27	13	14.6	7	38.54	61	30.6	0	56.46	23	53.7	4	62.62	47	54.2	0
20	12.14	13	13.9	8	37.93	62	30.6	6	56.23	23	53.3	8	62.15	47	54.2	7
30	12.01	13	13.1	8	37.31	60	30.0	11	56.00	23	52.5	12	61.68	47	53.5	12
Febr. 9	11.88	13	12.3	8	36.71	55	28.9	17	55.77	21	51.3	16	61.21	42	52.3	16
19	11.75	11	11.5	9	36.16	48	27.2	21	55.56	18	49.7	18	60.79	36	50.7	20
März 1	11.64	8	10.6	7	35.68	38	25.1	25	55.38	14	47.9	20	60.43	29	48.7	24
11	11.56	5	9.9	6	35.30	27	22.6	28	55.24	10	45.9	21	60.14	22	46.3	26
21	11.51	1	9.3	5	35.03	14	19.8	28	55.14	4	43.8	22	59.92	11	43.7	28
31	11.50	3	8.8	3	34.89	0	17.0	29	55.10	2	41.6	20	59.81	0	40.9	27
April 10	11.53	8	8.5	0	34.89	16	14.1	31	55.12	10	39.6	21	59.81	13	38.2	29
20	[13] 11.61	12	8.5	3	[14] 35.05	29	11.0	26	[15] 55.22	16	37.5	16	[15] 59.94	23	35.3	25
30	11.73	17	8.8	5	35.34	42	8.4	23	55.38	22	35.9	13	60.17	33	32.8	22
Mai 10	11.90	21	9.3	8	35.76	53	6.1	19	55.60	28	34.6	10	60.50	43	30.6	18
20	12.11	24	10.1	11	36.29	63	4.2	15	55.88	32	33.6	5	60.93	51	28.8	13
30	12.35	27	11.2	13	36.92	72	2.7	10	56.20	37	33.1	1	61.44	58	27.5	9
Juni 9	12.62	30	12.5	15	37.64	78	1.7	5	56.57	40	33.0	3	62.02	63	26.6	4
19	12.92	31	14.0	16	38.42	82	1.2	0	56.97	42	33.3	7	62.65	66	26.2	1
29	13.23	32	15.6	18	39.24	83	1.2	5	57.39	42	34.0	11	63.31	67	26.3	6
Juli 9	13.55	31	17.4	18	40.07	83	1.7	10	57.81	42	35.1	14	63.98	68	26.9	11
19	13.86	31	19.2	19	40.90	82	2.7	15	58.23	41	36.5	18	64.66	66	28.0	15
29	14.17	29	21.1	18	41.72	77	4.2	19	58.64	39	38.3	21	65.32	63	29.5	19
Aug. 8	14.46	26	22.9	17	42.49	72	6.1	23	59.03	37	40.4	22	65.95	59	31.4	23
18	14.72	24	24.6	17	43.21	66	8.4	27	59.40	32	42.6	25	66.54	53	33.7	26
28	14.96	21	26.3	15	43.87	57	11.1	30	59.72	29	45.1	26	67.07	48	36.3	29
Sept. 7	15.17	18	27.8	13	44.44	49	14.1	31	60.01	25	47.7	26	67.55	41	39.2	30
17	15.35	14	29.1	11	44.93	40	17.2	33	60.26	21	50.3	27	67.96	33	42.2	32
27	15.49	11	30.2	10	45.33	29	20.5	35	60.47	16	53.0	26	68.29	26	45.4	33
Oct. 7	15.60	8	31.2	7	45.62	19	24.0	35	60.63	11	55.6	26	68.55	17	48.7	33
17	15.68	5	31.9	5	45.81	9	27.5	34	60.74	7	58.2	24	68.72	9	52.0	33
27	15.73	2	32.4	3	45.90	2	30.9	33	60.81	2	60.6	22	68.81	1	55.3	31
Nov. 6	15.75	1	32.7	2	45.88	14	34.2	30	60.83	2	62.8	20	68.82	8	58.4	29
16	15.74	3	32.9	0	45.74	23	37.2	27	60.81	6	64.8	18	68.74	15	61.3	26
26	15.71	6	32.9	2	45.51	33	39.9	24	60.75	11	66.6	14	68.59	24	63.9	22
Dec. 6	15.65	9	32.7	3	45.18	43	42.3	20	60.64	14	68.0	10	68.35	31	66.1	18
16	15.56	10	32.4	4	44.75	51	44.3	14	60.50	17	69.0	7	68.04	37	67.9	13
26	15.46	12	32.0	6	44.24	56	45.7	9	60.33	20	69.7	2	67.67	41	69.2	8
36	15.34		31.4		43.68		46.6		60.13		69.9		67.26		70.0	
Mittl. Ort	11.02		7.7		35.59		7.9		54.70		36.3		60.03		32.4	
	22)				347)				23)				348)			

1901	φ Persei. 4ᵐ.0. AR.	Δ	Decl. +	Δ	τ Ceti. 3ᵐ.3. AR.	Δ	Decl. −	Δ	ο Piscium. 4ᵐ.1. AR.	Δ	Decl. +	Δ	Lac. ε Sculpt. 5ᵐ.1. AR.	Δ	Decl. −	Δ
	1ʰ 37ᵐ		50° 11′		1ʰ 39ᵐ		16° 27′		1ʰ 40ᵐ		8° 39′		1ʰ 41ᵐ		25° 32′	
	s		″		s		″		s		″		s		″	
Jan. 0	29.15	22	41.6	1	29.25	13	35.7	8	11.23	12	39.4	7	1.59	15	57.7	8
10	28.93	24	41.7	4	29.12	14	36.5	6	11.11	13	38.7	7	1.44	16	58.5	6
20	28.69	24	41.3	7	28.98	15	37.1	3	10.98	13	38.0	7	1.28	16	59.1	2
30	28.45	24	40.6	12	28.83	15	37.4	1	10.85	13	37.3	7	1.12	16	59.3	2
Febr. 9	28.21	23	39.4	15	28.68	14	37.5	3	10.72	13	36.6	6	0.96	15	59.1	6
19	27.98	20	37.9	19	28.54	12	37.2	5	10.59	11	36.0	5	0.81	13	58.5	8
März 1	27.78	16	36.0	21	28.42	11	36.7	8	10.48	9	35.5	5	0.68	11	57.7	12
11	27.62	11	33.9	21	28.31	7	35.9	11	10.39	7	35.0	3	0.57	8	56.5	16
21	27.51	5	31.8	22	28.24	4	34.8	13	10.32	3	34.7	0	0.49	5	54.9	18
31	27.46	1	29.6	21	28.20	0	33.5	16	10.29	2	34.7	1	0.44	1	53.1	20
April 10	27.47	9	27.5	22	28.20	5	31.9	20	10.31	6	34.8	3	0.43	5	51.1	25
20	[16] 27.56	16	25.3	17	[17] 28.25	9	29.9	21	[17] 10.37	11	35.1	6	[17] 0.48	9	48.6	25
30	27.72	22	23.6	14	28.34	14	27.8	22	10.48	15	35.7	9	0.57	14	46.1	26
Mai 10	27.94	28	22.2	11	28.48	17	25.6	23	10.63	19	36.6	11	0.71	18	43.5	26
20	28.22	33	21.1	7	28.65	22	23.3	24	10.82	22	37.7	12	0.89	22	40.9	27
30	28.55	38	20.4	2	28.87	25	20.9	24	11.04	26	38.9	15	1.11	25	38.2	26
Juni 9	28.93	41	20.2	1	29.12	27	18.5	23	11.30	29	40.4	16	1.36	28	35.6	25
19	29.34	43	20.3	6	29.39	29	16.2	23	11.59	30	42.0	18	1.64	31	33.1	23
29	29.77	43	20.9	10	29.68	30	13.9	20	11.89	30	43.8	18	1.95	32	30.8	20
Juli 9	30.20	44	21.9	14	29.98	31	11.9	18	12.19	31	45.6	18	2.27	32	28.8	17
19	30.64	43	23.3	17	30.29	30	10.1	16	12.50	31	47.4	18	2.59	32	27.1	14
29	31.07	41	25.0	20	30.59	29	8.5	12	12.81	29	49.2	17	2.91	30	25.7	10
Aug. 8	31.48	38	27.0	22	30.88	27	7.3	9	13.10	27	50.9	15	3.21	28	24.7	6
18	31.86	35	29.2	24	31.15	25	6.4	5	13.37	24	52.4	14	3.49	26	24.1	1
28	32.21	30	31.6	26	31.40	21	5.9	1	13.61	21	53.8	12	3.75	23	24.0	2
Sept. 7	32.51	26	34.2	27	31.61	18	5.8	2	13.82	19	55.0	10	3.98	19	24.2	7
17	32.77	22	36.9	27	31.79	15	6.0	6	14.01	16	56.0	8	4.17	16	24.9	11
27	32.99	18	39.6	27	31.94	11	6.6	9	14.17	12	56.8	5	4.33	12	26.0	14
Oct. 7	33.17	12	42.3	26	32.05	8	7.5	11	14.29	9	57.3	3	4.45	8	27.4	16
17	33.29	8	44.9	25	32.13	5	8.6	13	14.38	6	57.6	2	4.53	5	29.0	18
27	33.37	3	47.4	24	32.18	1	9.9	15	14.44	3	57.8	1	4.58	1	30.8	20
Nov. 6	33.40	1	49.8	21	32.19	2	11.4	15	14.47	0	57.7	2	4.59	3	32.8	20
16	33.39	6	51.9	19	32.17	5	12.9	16	14.47	2	57.5	3	4.56	5	34.8	19
26	33.33	11	53.8	15	32.12	7	14.5	15	14.45	5	57.2	5	4.51	8	36.7	17
Dec. 6	33.22	14	55.3	12	32.05	9	16.0	13	14.40	7	56.7	5	4.43	10	38.4	16
16	33.08	18	56.5	8	31.96	11	17.3	11	14.33	10	56.2	6	4.33	13	40.0	14
26	32.90	21	57.3	3	31.85	13	18.4	10	14.23	11	55.6	7	4.20	15	41.4	10
36	32.69		57.6		31.72		19.4		14.12		54.9		4.05		42.4	
Mittl. Ort	27.06		23.8		28.06		32.2		9.83		34.4		0.45		51.4	
			24)				542)				25)				543)	

1901	ζ Ceti. 3ᵐ.0. AR.		ζ Ceti. Decl. —		ε Cassiopej. 3ᵐ.3. AR.		ε Cassiopej. Decl. +		α Trianguli. 3ᵐ.6. AR.		α Trianguli. Decl. +		ξ Piscium. 4ᵐ.0. AR.		ξ Piscium. Decl. +	
	1ʰ 46ᵐ		10° 49′		1ʰ 47ᵐ		63° 10′		1ʰ 47ᵐ		29° 5′		1ʰ 48ᵐ		2° 41′	
Jan. 0	35.64	13	28.5	9	18.83	34	77.4	5	27.86	13	59.4	3	27.15	12	58.5	8
10	35.51	13	29.4	6	18.49	37	77.9	0	27.73	15	59.1	6	27.03	12	57.7	7
20	35.38	14	30.0	5	18.12	39	77.9	5	27.58	16	58.5	7	26.91	14	57.0	6
30	35.24	14	30.5	2	17.73	38	77.4	11	27.42	16	57.8	10	26.77	13	56.4	5
Febr. 9	35.10	14	30.7	0	17.35	36	76.3	15	27.26	16	56.8	11	26.64	13	55.9	5
19	34.96	12	30.7	2	16.99	32	74.8	19	27.10	14	55.7	13	26.51	12	55.4	3
März 1	34.84	10	30.5	5	16.67	26	72.9	22	26.96	11	54.4	13	26.39	10	55.1	2
11	34.74	7	30.0	7	16.41	20	70.7	25	26.85	8	53.1	13	26.29	7	54.9	— 1
21	34.67	4	29.3	10	16.21	11	68.2	26	26.77	4	51.8	12	26.22	4	55.0	2
31	34.63	0	28.3	13	16.10	2 —	65.6	26	26.73	— 1	50.6	11	26.18	0	55.2	4
April 10	34.63	5	27.0	16	16.08	9	63.0	27	26.74	6	49.5	9	26.18	6	55.6	8
20	[18]34.68	9	25.4	17	[19]16.17	19	60.3	24	[19]26.80	11	48.6	7	[19]26.24	10	56.4	10
30	34.77	13	23.7	19	16.36	27	57.9	21	26.91	17	47.9	4	26.34	13	57.4	11
Mai 10	34.90	18	21.8	20	16.63	35	55.8	17	27.08	21	47.5	0	26.47	18	58.5	14
20	35.08	21	19.8	22	16.98	43	54.1	13	27.29	25	47.5	2	26.65	22	59.9	15
30	35.29	25	17.6	22	17.41	49	52.8	8	27.54	28	47.7	6	26.87	25	61.4	17
Juni 9	35.54	27	15.4	21	17.90	53	52.0	4	27.82	32	48.3	9	27.12	27	63.1	18
19	35.81	29	13.3	22	18.43	57	51.6	0	28.14	33	49.2	11	27.39	29	64.9	19
29	36.10	30	11.1	20	19.00	59	51.6	6	28.47	34	50.3	14	27.68	31	66.8	18
Juli 9	36.40	31	9.1	18	19.59	59	52.2	10	28.81	34	51.7	16	27.99	30	68.6	18
19	36.71	30	7.3	16	20.18	57	53.2	14	29.15	34	53.3	17	28.29	30	70.4	18
29	37.01	29	5.7	14	20.75	56	54.6	18	29.49	32	55.0	18	28.59	29	72.2	16
Aug. 8	37.30	27	4.3	10	21.31	52	56.4	21	29.81	30	56.8	20	28.88	27	73.8	14
18	37.57	25	3.3	7	21.83	48	58.5	25	30.11	28	58.8	19	29.15	25	75.2	11
28	37.82	22	2.6	4	22.31	43	61.0	27	30.39	24	60.7	19	29.40	22	76.3	9
Sept. 7	38.04	19	2.2	0	22.74	38	63.7	29	30.63	22	62.6	19	29.62	18	77.2	7
17	38.23	15	2.2	3	23.12	31	66.6	30	30.85	18	64.5	18	29.80	16	77.9	5
27	38.38	13	2.5	6	23.43	25	69.6	31	31.03	15	66.3	17	29.96	13	78.4	2
Oct. 7	38.51	9	3.1	8	23.68	19	72.7	31	31.18	11	68.0	15	30.09	10	78.6	— 1
17	38.60	5	3.9	11	23.87	11	75.8	31	31.29	8	69.5	13	30.19	7	78.5	2
27	38.65	3	5.0	12	23.98	5 —	78.9	30	31.37	4	70.8	12	30.26	3	78.3	4
Nov. 6	38.68	0	6.2	13	24.03	3	81.9	27	31.41	1 —	72.0	10	30.29	1 —	77.9	6
16	38.68	3	7.5	13	24.00	9	84.6	25	31.42	2	73.0	8	30.30	2	77.3	7
26	38.65	6	8.8	13	23.91	16	87.1	22	31.40	4	73.8	5	30.28	4	76.6	7
Dec. 6	38.59	8	10.1	13	23.75	23	89.3	17	31.36	8	74.3	3	30.24	7	75.9	8
16	38.51	10	11.4	11	23.52	28	91.0	13	31.28	11	74.6	1 —	30.17	9	75.1	8
26	38.41	12	12.5	9	23.24	33	92.3	8	31.17	13	74.7	2	30.08	11	74.3	7
36	38.29		13.4		22.91		93.1		31.04		74.5		29.97		73.6	
Mittl. Ort	34.36		26.7		15.99		57.4		26.17		48.0		25.75		55.8	
	544)				26)				27)				29)			

1901	β Arietis. 2ᵐ.8.				50 Cassiopej. 4ᵐ.0.				υ Ceti. 4ᵐ.0.				γ Andromed. 2ᵐ.4.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. —		AR.		Decl. +	
	1ʰ 49ᵐ		20° 19′		1ʰ 54ᵐ		71° 56′		1ʰ 55ᵐ		21° 33′		1ʰ 57ᵐ		41° 51′	
Jan. 0	11.71	13	35.7	5	62.17	53	53.1	9	21.61	13	33.2	9	51.15	17	31.6	1
10	11.58	13	35.2	6	61.64	58	54.0	3	21.48	15	34.1	7	50.98	19	31.7	3
20	11.45	15	34.6	7	61.06	60	54.3	3	21.33	16	34.8	4	50.79	20	31.4	6
30	11.30	15	33.9	9	60.46	59	54.0	9	21.17	16	35.2	0	50.59	20	30.8	9
Febr. 9	11.15	14	33.0	9	59.87	57	53.1	14	21.01	15	35.2	4	50.39	20	29.9	13
19	11.01	12	32.1	9	59.30	50	51.7	19	20.86	14	34.8	6	50.19	18	28.6	15
März 1	10.89	11	31.2	10	58.80	43	49.8	22	20.72	12	34.2	9	50.01	15	27.1	17
11	10.78	7	30.2	8	58.37	32	47.6	26	20.60	9	33.3	13	49.86	11	25.4	18
21	10.71	4	29.4	8	58.05	20	45.0	28	20.51	6	32.0	15	49.75	7	23.6	18
31	10.67	1	28.6	6	57.85	7	42.2	28	20.45	1	30.5	18	49.68	1	21.8	17
April 10	10.68	6	28.0	4	57.78	6	39.4	28	20.44	2	28.7	21	49.67	5	20.1	16
20	^{19}10.74	10	27.6	1	57.84	23	36.6	29	20.46	8	26.6	25	49.72	12	18.5	15
30	10.84	15	27.5	1	^{21}58.07	34	33.7	24	^{21}20.54	12	24.1	24	^{21}49.84	18	17.0	11
Mai 10	10.99	20	27.6	4	58.41	47	31.3	22	20.66	17	21.7	25	50.02	23	15.9	8
20	11.19	23	28.0	7	58.88	57	29.1	17	20.83	21	19.2	25	50.25	27	15.1	5
30	11.42	27	28.7	9	59.45	65	27.4	13	21.04	24	16.7	26	50.52	32	14.6	1
Juni 9	11.69	29	29.6	12	60.10	73	26.1	7	21.28	27	14.1	24	50.84	35	14.5	3
19	11.98	31	30.8	14	60.83	78	25.4	3	21.55	29	11.7	23	51.19	38	14.8	7
29	12.29	33	32.2	16	61.61	81	25.1	2	21.84	31	9.4	21	51.57	38	15.5	10
Juli 9	12.62	32	33.8	16	62.42	82	25.3	7	22.15	32	7.3	18	51.95	39	16.5	12
19	12.94	32	35.4	18	63.24	81	26.0	12	22.47	31	5.5	15	52.34	39	17.7	16
29	13.26	30	37.2	18	64.05	79	27.2	16	22.78	30	4.0	12	52.73	37	19.3	18
Aug. 8	13.56	29	39.0	18	64.84	74	28.8	20	23.08	28	2.8	8	53.10	35	21.1	20
18	13.85	26	40.8	17	65.58	69	30.8	24	23.36	26	2.0	3	53.45	32	23.1	21
28	14.11	24	42.5	16	66.27	62	33.2	27	23.62	24	1.7	0	53.77	29	25.2	22
Sept. 7	14.35	20	44.1	15	66.89	55	35.9	29	23.86	20	1.7	5	54.06	26	27.4	23
17	14.55	17	45.6	13	67.44	46	38.8	32	24.06	17	2.2	8	54.32	22	29.7	23
27	14.72	14	46.9	12	67.90	37	42.0	33	24.23	13	3.0	12	54.54	18	32.0	22
Oct. 7	14.86	11	48.1	10	68.27	27	45.3	33	24.36	10	4.2	14	54.72	14	34.2	22
17	14.97	7	49.1	9	68.54	17	48.6	34	24.46	6	5.6	17	54.86	10	36.4	21
27	15.04	5	50.0	6	68.71	6	52.0	32	24.52	3	7.3	18	54.96	7	38.5	19
Nov. 6	15.09	1	50.6	5	68.77	4	55.2	31	24.55	1	9.1	19	55.03	2	40.4	17
16	15.10	2	51.1	3	68.73	15	58.3	29	24.54	4	11.0	18	55.05	2	42.1	15
26	15.08	4	51.4	1	68.58	26	61.2	26	24.50	6	12.8	17	55.03	6	43.6	12
Dec. 6	15.04	7	51.5	1	68.32	35	63.8	21	24.44	9	14.5	16	54.97	9	44.8	10
16	14.97	9	51.4	2	67.97	44	65.9	17	24.35	11	16.1	14	54.88	13	45.8	6
26	14.88	12	51.2	4	67.53	50	67.6	11	24.24	13	17.5	11	54.75	16	46.4	2
36	14.76		50.8		67.03		68.7		24.11		18.6		54.59		46.6	
Mittl. Ort	10.12		27.2		58.22		32.4		20.37		27.8		49.12		17.0	
	30)				31)				545)				32)			

1901	α Arietis. 2m.0. AR.		α Arietis. Decl. +		β Trianguli. 3m.0. AR.		β Trianguli. Decl. +		55 Cassiopej. 6m.1. AR.		55 Cassiopej. Decl. +		Lac. μ Forn. 5m.2. AR.		Lac. μ Forn. Decl. —	
	2h 1m		22° 59′		2h 3m		34° 31′		2h 6m		66° 3′		2h 8m		31° 10′	
Jan. 0	37.12	12	49.1	4	40.94	14	21.1	1	45.77	37	56.8	9	34.09	16	87.1	11
10	37.00	14	48.7	6	40.80	17	21.0	3	45.40	42	57.7	3	33.93	18	88.2	7
20	36.86	15	48.1	7	40.63	17	20.7	6	44.98	43	58.0	— 3	33.75	18	88.9	3
30	36.71	16	47.4	8	40.46	18	20.1	9	44.55	44	57.7	8	33.57	19	89.2	— 1
Febr. 9	36.55	15	46.6	9	40.28	18	19.2	11	44.11	42	56.9	13	33.38	18	89.1	5
19	36.40	13	45.7	10	40.10	16	18.1	13	43.69	39	55.6	17	33.20	17	88.6	9
März 1	36.27	12	44.7	10	39.94	14	16.8	14	43.30	34	53.9	21	33.03	15	87.7	13
11	36.15	9	43.7	9	39.80	10	15.4	15	42.96	26	51.8	24	32.88	12	86.4	17
21	36.06	5	42.8	9	39.70	6	13.9	15	42.70	17	49.4	25	32.76	8	84.7	19
31	36.01	1	41.9	8	39.64	1	12.4	13	42.53	7	46.9	27	32.68	4	82.8	23
April 10	36.00	— 5	41.1	5	39.63	— 4	11.1	12	42.46	— 4	44.2	26	32.64	0	80.5	24
20	36.05	10	40.6	4	39.67	11	9.9	11	42.50	16	41.6	28	32.64	6	78.1	30
30	[23] 36.15	14	40.2	1	[23] 39.78	15	8.8	7	[24] 42.66	25	38.8	23	[21] 32.70	10	75.1	28
Mai 10	36.29	19	40.1	— 2	39.93	21	8.1	5	42.91	35	36.5	19	32.80	15	72.3	29
20	36.48	22	40.3	5	40.14	25	7.6	1	43.26	44	34.6	16	32.95	20	69.4	29
30	36.70	27	40.8	8	40.39	29	7.5	— 2	43.70	50	33.0	12	33.15	24	66.5	28
Juni 9	36.97	29	41.6	10	40.68	32	7.7	5	44.20	57	31.8	7	33.39	27	63.7	26
19	37.26	31	42.6	12	41.00	34	8.2	9	44.77	61	31.1	3	33.66	30	61.1	25
29	37.57	33	43.8	14	41.34	35	9.1	11	45.38	64	30.8	— 2	33.96	32	58.6	22
Juli 9	37.90	33	45.2	16	41.69	36	10.2	13	46.02	65	31.0	7	34.28	32	56.4	18
19	38.23	32	46.8	17	42.05	36	11.5	16	46.67	64	31.7	11	34.60	33	54.6	15
29	38.55	32	48.5	17	42.41	34	13.1	18	47.31	63	32.8	15	34.93	32	53.1	11
Aug. 8	38.87	30	50.2	18	42.75	33	14.9	18	47.94	60	34.3	19	35.25	31	52.0	5
18	39.17	27	52.0	17	43.08	30	16.7	20	48.54	56	36.2	23	35.56	28	51.5	1
28	39.44	25	53.7	16	43.38	27	18.7	20	49.10	51	38.5	25	35.84	26	51.4	— 3
Sept. 7	39.69	21	55.3	16	43.65	24	20.7	20	49.61	45	41.0	28	36.10	22	51.7	8
17	39.90	19	56.9	14	43.89	21	22.7	19	50.06	39	43.8	29	36.32	19	52.5	13
27	40.09	16	58.3	13	44.10	18	24.6	19	50.45	32	46.7	31	36.51	15	53.8	16
Oct. 7	40.25	12	59.6	11	44.28	14	26.5	18	50.77	25	49.8	31	36.66	11	55.4	19
17	40.37	9	60.7	10	44.42	10	28.3	16	51.02	18	52.9	31	36.77	7	57.3	22
27	40.46	6	61.7	8	44.52	7	29.9	15	51.20	9	56.0	30	36.84	3	59.5	23
Nov. 6	40.52	3	62.5	6	44.59	3	31.4	13	51.29	2	59.0	30	36.87	0	61.8	23
16	40.55	— 1	63.1	5	44.62	0	32.7	11	51.31	— 7	62.0	27	36.87	4	64.1	22
26	40.54	3	63.6	2	44.62	4	33.8	9	51.24	15	64.7	23	36.83	7	66.3	21
Dec. 6	40.51	6	63.8	1	44.58	8	34.7	6	51.09	23	67.0	21	36.76	10	68.4	19
16	40.45	9	63.9	— 1	44.50	10	35.3	4	50.86	29	69.1	16	36.66	13	70.3	17
26	40.36	12	63.8	3	44.40	14	35.7	1	50.57	35	70.7	11	36.53	14	72.0	13
36	40.24		63.5		44.26		35.8		50.22		71.8		36.39		73.3	
Mittl. Ort	35.42		40.2		39.03		8.9		42.39		37.6		32.82		78.8	
	33)				34)				350)				546)			

1901	67 Ceti. 6^m.0.				o Ceti. 1.7…9^m.0.				ξ² Ceti. 4^m.0.				36 H.Cassiop. 5^m.6.			
	AR.		Decl. −		AR.		Decl. −		AR.		Decl. +		AR.		Decl. +	
	$2^h\ 12^m$		6° 52′		$2^h\ 14^m$		3° 25′		$2^h\ 22^m$		8° 0′		$2^h\ 28^m$		72° 22′	
Jan. 0	^{s}4.10	11	″42.9	9	^{s}22.10	11	″38.3	9	^{s}55.26	11	″62.4	7	^{s}41.43	49	″85.9	13
10	3.99	13	43.8	8	21.99	13	39.2	8	55.15	12	61.7	7	40.94	57	87.2	7
20	3.86	14	44.6	6	21.86	14	40.0	6	55.03	14	61.0	6	40.37	61	87.9	2
30	3.72	15	45.2	4	21.72	15	40.6	4	54.89	15	60.4	6	39.76	62	88.1	— 5
Febr. 9	3.57	14	45.6	2	21.57	14	41.0	3	54.74	14	59.8	6	39.14	61	87.6	10
19	3.43	14	45.8	0	21.43	13	41.3	1	54.60	14	59.2	4	38.53	57	86.6	14
März 1	3.29	12	45.8	3	21.30	12	41.4	0	54.46	12	58.8	4	37.96	50	85.2	20
11	3.17	9	45.5	5	21.18	10	41.4	3	54.34	10	58.4	2	37.46	42	83.2	23
21	3.08	6	45.0	7	21.08	6	41.1	6	54.24	7	58.2	1	37.04	31	80.9	26
31	3.02	3	44.3	10	21.02	2	40.5	8	54.17	3	58.1	— 1	36.73	17	78.3	27
April 10	2.99	— 2	43.3	12	21.00	— 2	39.7	10	54.14	— 2	58.2	3	36.56	4	75.6	28
20	3.01	7	42.1	16	21.02	6	38.7	13	54.16	7	58.5	6	36.52	— 10	72.8	28
30	25 3.08	11	40.5	16	26 21.08	11	37.4	14	28 54.23	11	59.1	8	30 36.62	28	70.0	28
Mai 10	3.19	15	38.9	18	21.19	16	36.0	16	54.34	15	59.9	10	36.90	38	67.2	24
20	3.34	20	37.1	19	21.35	19	34.4	18	54.49	19	60.9	11	37.28	51	64.8	20
30	3.54	23	35.2	20	21.54	23	32.6	19	54.68	23	62.0	14	37.79	60	62.8	16
Juni 9	3.77	25	33.2	21	21.77	26	30.7	20	54.91	26	63.4	15	38.39	70	61.2	12
19	4.02	28	31.1	21	22.03	28	28.7	19	55.17	28	64.9	16	39.09	77	60.0	8
29	4.30	30	29.0	19	22.31	29	26.8	19	55.45	30	66.5	17	39.86	81	59.2	2
Juli 9	4.60	30	27.1	19	22.60	30	24.9	18	55.75	31	68.2	17	40.67	84	59.0	— 2
19	4.90	30	25.2	17	22.90	30	23.1	17	56.06	30	69.9	16	41.51	84	59.2	7
29	5.20	29	23.5	14	23.20	29	21.4	15	56.36	30	71.5	16	42.35	84	59.9	11
Aug. 8	5.49	28	22.1	12	23.49	28	19.9	12	56.66	29	73.1	14	43.19	81	61.0	16
18	5.77	26	20.9	8	23.77	26	18.7	10	56.95	27	74.5	13	44.00	77	62.6	20
28	6.03	23	20.1	6	24.03	24	17.7	7	57.22	24	75.8	10	44.77	72	64.6	23
Sept. 7	6.26	21	19.5	2	24.27	21	17.0	4	57.46	22	76.8	9	45.49	65	66.9	26
17	6.47	18	19.3	— 1	24.48	18	16.6	0	57.68	19	77.7	7	46.14	57	69.5	28
27	6.65	15	19.4	4	24.66	15	16.6	2	57.87	16	78.4	4	46.71	49	72.3	31
Oct. 7	6.80	11	19.8	6	24.81	12	16.8	4	58.03	13	78.8	2	47.20	39	75.4	32
17	6.91	9	20.4	9	24.93	9	17.2	7	58.16	11	79.0	0	47.59	29	78.6	32
27	7.00	5	21.3	10	25.02	6	17.9	8	58.27	7	79.0	2	47.88	18	81.8	32
Nov. 6	7.05	3	22.3	12	25.08	3	18.7	10	58.34	4	78.8	3	48.06	7	85.0	32
16	7.08	— 1	23.5	12	25.11	0	19.7	10	58.38	2	78.5	4	48.13	— 4	88.2	30
26	7.07	3	24.7	12	25.11	3	20.7	11	58.40	— 2	78.1	5	48.09	17	91.2	28
Dec. 6	7.04	6	25.9	12	25.08	6	21.8	11	58.38	4	77.6	6	47.92	27	94.0	24
16	6.98	8	27.1	11	25.02	8	22.9	10	58.34	7	77.0	6	47.65	37	96.4	20
26	6.90	11	28.2	10	24.94	10	23.9	10	58.27	9	76.4	7	47.28	47	98.4	16
36	6.79		29.2		24.84		24.9		58.18		75.7		46.81		100.0	
Mittl. Ort	2.65		41.7		20.61		38.2		53.62		59.2		36.73		67.4	
	353)				35)				37)				38)			

1901	ν Arietis. $5^m.6$. AR.		Decl. +		δ Ceti. $4^m.0$. AR.		Decl. —		ϑ Persei. $4^m.0$. AR.		Decl. +		π Ceti. $4^m.0$. AR.		Decl. —	
	$2^h\ 33^m$		$21^\circ\ 31'$		$2^h\ 34^m$		$0^\circ\ 5'$		$2^h\ 37^m$		$48^\circ\ 48'$		$2^h\ 39^m$		$14^\circ\ 16'$	
Jan. 0	13.42	11	67.5	3	26.06	10	54.9	9	28.64	18	49.1	6	26.11	11	44.7	12
10	13.31	13	67.2	4	25.96	12	55.8	7	28.46	21	49.7	2	26.00	13	45.9	9
20	13.18	14	66.8	6	25.84	14	56.5	7	28.25	23	49.9	—2	25.87	15	46.8	6
30	13.04	16	66.2	7	25.70	15	57.2	5	28.02	25	49.7	5	25.72	16	47.4	4
Febr. 9	12.88	16	65.5	7	25.55	15	57.7	4	27.77	24	49.2	10	25.56	16	47.8	1
19	12.72	15	64.8	8	25.40	15	58.1	2	27.53	24	48.2	12	25.40	16	47.9	—2
März 1	12.57	14	64.0	8	25.25	13	58.3	1	27.29	21	47.0	16	25.24	15	47.7	4
11	12.43	12	63.2	9	25.12	10	58.4	—2	27.08	18	45.4	18	25.09	12	47.3	8
21	12.31	8	62.3	7	25.02	8	58.2	3	26.90	13	43.6	19	24.97	9	46.5	10
31	12.23	4	61.6	7	24.94	4	57.9	5	26.77	6	41.7	19	24.88	5	45.5	13
April 10	12.19	—1	60.9	5	24.90	1	57.4	8	26.71	1	39.8	19	24.83	2	44.2	16
20	12.20	6	60.4	3	24.89	—5	56.6	10	26.70	—7	37.9	19	24.81	—3	42.6	17
30	12.26	11	60.1	0	24.94	10	55.6	13	26.77	15	36.0	18	24.84	9	40.9	22
Mai 10	[1] 12.37	16	60.1	1	[1] 25.04	14	54.3	14	[2] 26.92	20	34.2	13	[2] 24.93	12	38.7	21
20	12.53	20	60.2	4	25.18	17	52.9	16	27.12	26	32.9	11	25.05	17	36.6	23
30	12.73	24	60.6	7	25.35	22	51.3	17	27.38	31	31.8	7	25.22	21	34.3	23
Juni 9	12.97	27	61.3	9	25.57	25	49.6	18	27.69	36	31.1	4	25.43	24	32.0	23
19	13.24	30	62.2	11	25.82	27	47.8	18	28.05	39	30.7	0	25.67	26	29.7	22
29	13.54	31	63.3	12	26.09	28	46.0	19	28.44	42	30.7	4	25.93	29	27.5	21
Juli 9	13.85	32	64.5	14	26.37	30	44.1	17	28.86	43	31.1	7	26.22	29	25.4	20
19	14.17	32	65.9	15	26.67	30	42.4	17	29.29	43	31.8	10	26.51	30	23.4	17
29	14.49	32	67.4	16	26.97	30	40.7	15	29.72	43	32.8	13	26.81	30	21.7	14
Aug. 8	14.81	31	69.0	15	27.27	28	39.2	13	30.15	41	34.1	16	27.11	29	20.3	11
18	15.12	29	70.5	15	27.55	27	37.9	11	30.56	39	35.7	18	27.40	27	19.2	7
28	15.41	26	72.0	15	27.82	25	36.8	8	30.95	36	37.5	20	27.67	26	18.5	3
Sept. 7	15.67	24	73.5	13	28.07	22	36.0	5	31.31	34	39.5	22	27.93	23	18.2	0
17	15.91	22	74.8	13	28.29	20	35.5	2	31.65	30	41.7	22	28.16	20	18.2	4
27	16.13	18	76.1	11	28.49	17	35.3	0	31.95	25	43.9	23	28.36	17	18.6	8
Oct. 7	16.31	16	77.2	9	28.66	14	35.3	3	32.20	22	46.2	23	28.53	14	19.4	11
17	16.47	12	78.1	8	28.80	11	35.6	5	32.42	17	48.5	23	28.67	11	20.5	13
27	16.59	9	78.9	7	28.91	8	36.1	7	32.59	13	50.8	22	28.78	8	21.8	15
Nov. 6	16.68	6	79.6	5	28.99	5	36.8	8	32.72	8	53.0	21	28.86	4	23.3	16
16	16.74	3	80.1	3	29.04	2	37.6	9	32.80	4	55.1	19	28.90	2	24.9	17
26	16.77	0	80.4	2	29.06	—1	38.5	10	32.84	—2	57.0	17	28.92	—2	26.6	17
Dec. 6	16.77	4	80.6	1	29.05	3	39.5	10	32.82	7	58.7	15	28.90	5	28.3	16
16	16.73	7	80.7	—1	29.02	7	40.5	9	32.75	11	60.2	11	28.85	8	29.9	14
26	16.66	9	80.6	2	28.95	10	41.4	9	32.64	16	61.3	8	28.77	11	31.3	13
36	16.57		80.4		28.85		42.3		32.48		62.1		28.66		32.6	
Mittl. Ort	11.55		60.6		24.44		55.1		26.05		35.2		24.58		40.5	
	355)				39)				40)				547)			

1901	μ Ceti. $4^m.0$ AR.		Decl. +		41 Arietis. $3^m.8$ AR.		Decl. +		τ^2 Eridani. $4^m.6$ AR.		Decl. —		τ Persei. $4^m.0$ AR.		Decl. +	
	$2^h\ 39^m$		$9^\circ\ 41'$		$2^h\ 44^m$		$26^\circ\ 51'$		$2^h\ 46^m$		$21^\circ\ 24'$		$2^h\ 47^m$		$52^\circ\ 21'$	
Jan. 0	37.01	10	49.7	6	11.25	11	17.0	1	34.36	12	50.6	13	16.88	19	40.6	9
10	36.91	12	49.1	6	11.14	13	16.9	3	34.24	15	51.9	10	16.69	23	41.5	4
20	36.79	14	48.5	6	11.01	16	16.6	4	34.09	16	52.9	6	16.46	26	41.9	1
30	36.65	15	47.9	6	10.85	17	16.2	6	33.93	17	53.5	4	16.20	27	41.8	4
Febr. 9	36.50	15	47.3	5	10.68	17	15.6	8	33.76	18	53.9	0	15.93	27	41.4	8
19	36.35	15	46.8	5	10.51	17	14.8	9	33.58	17	53.9	3	15.66	27	40.6	12
März 1	36.20	13	46.3	4	10.34	15	13.9	9	33.41	16	53.6	7	15.39	24	39.4	16
11	36.07	11	45.9	3	10.19	12	13.0	10	33.25	13	52.9	11	15.15	21	37.8	18
21	35.96	8	45.6	2	10.07	10	12.0	10	33.12	11	51.8	13	14.94	15	36.0	20
31	35.88	5	45.4	1	9.97	5	11.0	9	33.01	7	50.5	16	14.79	9	34.0	20
April 10	35.83	0	45.3	2	9.92	0	10.1	8	32.94	3	48.9	19	14.70	2	32.0	21
20	35.83	5	45.5	4	9.92	4	9.3	6	32.91	2	47.0	21	14.68	5	29.9	20
30	35.88	10	45.9	7	9.96	11	8.7	5	32.93	7	44.9	25	14.73	13	27.9	19
Mai 10	[3] 35.98	14	46.6	9	[4] 10.07	15	8.2	2	[4] 33.00	12	42.4	25	[5] 14.86	20	26.0	16
20	36.12	18	47.5	10	10.22	20	8.0	1	33.12	15	39.9	26	15.06	26	24.4	13
30	36.30	22	48.5	12	10.42	24	8.1	3	33.27	20	37.3	25	15.32	32	23.1	10
Juni 9	36.52	25	49.7	14	10.66	28	8.4	6	33.47	24	34.8	25	15.64	38	22.1	6
19	36.77	28	51.1	15	10.94	30	9.0	8	33.71	26	32.3	25	16.02	41	21.5	3
29	37.05	29	52.6	15	11.24	32	9.8	10	33.97	29	29.8	22	16.43	43	21.2	2
Juli 9	37.34	30	54.1	16	11.56	33	10.8	12	34.26	30	27.6	20	16.86	46	21.4	5
19	37.64	31	55.7	16	11.89	34	12.0	14	34.56	30	25.6	18	17.32	46	21.9	8
29	37.95	30	57.3	16	12.23	33	13.4	15	34.86	31	23.8	14	17.78	45	22.7	12
Aug. 8	38.25	29	58.9	14	12.56	32	14.9	14	35.17	30	22.4	9	18.23	44	23.9	15
18	38.54	28	60.3	12	12.88	30	16.3	15	35.47	28	21.5	6	18.67	43	25.4	17
28	38.82	25	61.5	11	13.18	28	17.8	15	35.75	26	20.9	1	19.10	40	27.1	19
Sept. 7	39.07	24	62.6	9	13.46	26	19.3	15	36.01	24	20.8	3	19.50	36	29.0	21
17	39.31	21	63.5	7	13.72	24	20.8	14	36.25	21	21.1	7	19.86	33	31.1	23
27	39.52	18	64.2	4	13.96	20	22.2	13	36.46	18	21.8	11	20.19	29	33.4	23
Oct. 7	39.70	15	64.6	3	14.16	17	23.5	12	36.64	15	22.9	14	20.48	25	35.7	24
17	39.85	12	64.9	1	14.33	14	24.7	11	36.79	12	24.3	17	20.73	20	38.1	24
27	39.97	9	65.0	1	14.47	11	25.8	9	36.91	8	26.0	19	20.93	15	40.5	24
Nov. 6	40.06	7	64.9	3	14.58	8	26.7	8	36.99	4	27.9	20	21.08	10	42.9	23
16	40.13	3	64.6	3	14.66	4	27.5	7	37.03	1	29.9	21	21.18	5	45.2	21
26	40.16	0	64.3	5	14.70	1	28.2	5	37.04	2	32.0	20	21.23	1	47.3	19
Dec. 6	40.16	3	63.8	5	14.71	3	28.7	4	37.02	5	34.0	18	21.22	7	49.2	17
16	40.13	6	63.3	6	14.68	6	29.1	2	36.97	8	35.8	17	21.15	12	50.9	14
26	40.07	9	62.7	6	14.62	10	29.3	0	36.89	12	37.5	15	21.03	17	52.3	10
36	39.98		62.1		14.52		29.3		36.77		39.0		20.86		53.3	
Mittl. Ort	35.26		46.7		9.23		9.1		32.84		44.2		14.04		26.7	
	42)				44)				548)				45)			

1901	η Eridani. $3^m.0$				47 H. Cephei. $6^m.0$				α Ceti. $2^m.3$				γ Persei. $3^m.0$			
	AR.		Decl. −		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$2^h\ 51^m$		9° 17′		$2^h\ 52^m$		79° 1′		$2^h\ 57^m$		3° 42′		$2^h\ 57^m$		53° 7′	
	s		″		s		″		s		″		s		″	
Jan. 0	37.03	10	34.5	12	62.25	78	57.5	17	7.90	9	5.7	7	40.28	19	21.5	9
10	36.93	12	35.7	9	61.47	90	59.2	12	7.81	11	5.0	8	40.09	22	22.4	5
20	36.81	15	36.6	7	60.57	99	60.4	7	7.70	14	4.2	6	39.87	26	22.9	1
30	36.66	15	37.3	5	59.58	104	61.1	0	7.56	15	3.6	6	39.61	28	23.0	3
Febr. 9	36.51	16	37.8	2	58.54	103	61.1	6	7.41	15	3.0	5	39.33	28	22.7	7
19	36.35	16	38.0	0	57.51	100	60.5	12	7.26	16	2.5	3	39.05	28	22.0	11
März 1	36.19	15	38.0	2	56.51	90	59.3	17	7.10	14	2.2	2	38.77	26	20.9	15
11	36.04	12	37.8	5	55.61	77	57.6	22	6.96	13	2.0	0	38.51	22	19.4	17
21	35.92	10	37.3	7	54.84	61	55.4	25	6.83	9	2.0	1	38.29	16	17.7	19
31	35.82	6	36.6	10	54.23	42	52.9	27	6.74	6	2.1	3	38.13	11	15.8	20
April 10	35.76	2	35.6	13	53.81	21	50.2	29	6.68	2	2.4	5	38.02	4	13.8	21
20	35.74	2	34.3	14	53.60	2	47.3	30	6.66	2	2.9	7	37.98	3	11.7	20
30	35.76	7	32.9	18	53.62	27	44.3	31	6.68	8	3.6	10	38.01	12	9.7	21
Mai 10	[6] 35.83	12	31.1	18	[8] 53.89	45	41.2	27	[7] 6.76	12	4.6	12	[7] 38.13	19	7.6	17
20	35.95	16	29.3	21	54.34	65	38.5	24	6.88	16	5.8	13	38.32	25	5.9	14
30	36.11	20	27.2	21	54.99	84	36.1	21	7.04	20	7.1	14	38.57	31	4.5	10
Juni 9	36.31	23	25.1	21	55.83	97	34.0	17	7.24	23	8.5	16	38.88	37	3.5	8
19	36.54	25	23.0	21	56.80	111	32.3	13	7.47	26	10.1	16	39.25	41	2.7	4
29	36.79	28	20.9	20	57.91	120	31.0	7	7.73	29	11.7	17	39.66	43	2.3	0
Juli 9	37.07	29	18.9	19	59.11	127	30.3	3	8.02	29	13.4	17	40.09	46	2.3	4
19	37.36	30	17.0	17	60.38	130	30.0	2	8.31	30	15.1	16	40.55	47	2.7	6
29	37.66	30	15.3	15	61.68	131	30.2	6	8.61	30	16.7	14	41.02	46	3.3	11
Aug. 8	37.96	29	13.8	12	62.99	129	30.8	12	8.91	29	18.1	13	41.48	46	4.4	13
18	38.25	27	12.6	8	64.28	125	32.0	16	9.20	28	19.4	12	41.94	44	5.7	16
28	38.52	26	11.8	5	65.53	119	33.6	19	9.48	26	20.6	8	42.38	41	7.3	18
Sept. 7	38.78	23	11.3	1	66.72	110	35.5	24	9.74	23	21.4	6	42.79	38	9.1	20
17	39.01	21	11.2	2	67.82	98	37.9	27	9.97	22	22.0	4	43.17	35	11.1	22
27	39.22	18	11.4	5	68.80	86	40.6	29	10.19	19	22.4	1	43.52	31	13.3	23
Oct. 7	39.40	16	11.9	8	69.66	72	43.5	31	10.38	16	22.5	1	43.83	27	15.6	24
17	39.56	12	12.7	11	70.38	56	46.6	33	10.54	14	22.4	3	44.10	22	18.0	24
27	39.68	10	13.8	12	70.94	39	49.9	34	10.68	10	22.1	5	44.32	17	20.4	24
Nov. 6	39.78	6	15.0	14	71.33	20	53.3	34	10.78	8	21.6	7	44.49	12	22.8	22
16	39.84	3	16.4	15	71.53	1	56.7	32	10.86	4	20.9	7	44.61	7	25.0	22
26	39.87	0	17.9	15	71.54	18	59.9	31	10.90	2	20.2	9	44.68	0	27.2	20
Dec. 6	39.87	4	19.4	14	71.36	37	63.0	28	10.92	2	19.3	8	44.68	5	29.2	17
16	39.83	6	20.8	13	70.99	56	65.8	25	10.90	5	18.5	8	44.63	11	30.9	15
26	39.77	9	22.1	12	70.43	71	68.3	20	10.85	8	17.7	8	44.52	16	32.4	11
36	39.68		23.3		69.72		70.3		10.77		16.9		44.36		33.5	
Mittl. Ort	35.40		31.5		54.55		40.2		6.13		5.2		37.30		8.2	
			46)				358)				47)				48)	

1901	ρ Persei. 3.4...$4^m.2$. AR.		Decl. +		β Persei. 2.2...$3^m.7$. AR.		Decl. +	
	$2^h\ 58^m$		38° 27′		$3^h\ 1^m$		40° 34′	
Jan. 0	52.15	13	34.8	4	45.88	12	38.1	5
10	52.02	15	35.2	1	45.76	16	38.6	2
20	51.87	18	35.3	2	45.60	19	38.8	1
30	51.69	20	35.1	4	45.41	21	38.7	4
Febr. 9	51.49	21	34.7	7	45.20	21	38.3	7
19	51.28	20	34.0	9	44.99	21	37.6	10
März 1	51.08	19	33.1	12	44.78	20	36.6	11
11	50.89	16	31.9	14	44.58	17	35.5	14
21	50.73	12	30.5	14	44.41	13	34.1	15
31	50.61	8	29.1	14	44.28	8	32.6	15
April 10	50.53	2	27.7	14	44.20	3	31.1	15
20	50.51	3	26.3	13	44.17	3	29.6	14
30	50.54	10	25.0	12	44.20	10	28.2	13
Mai 10	[8] 50.64	16	23.8	9	44.30	15	26.9	11
20	50.80	21	22.9	7	44.45	20	25.8	8
30	51.01	25	22.2	4	44.65	26	25.0	5
Juni 9	51.26	30	21.8	1	44.91	30	24.5	1
19	51.56	32	21.7	3	45.21	33	24.4	0
29	51.88	35	22.0	5	45.54	36	24.4	4
Juli 9	52.23	37	22.5	7	45.90	38	24.8	7
19	52.60	37	23.2	10	46.28	38	25.5	10
29	52.97	37	24.2	12	46.66	39	26.5	11
Aug. 8	53.34	37	25.4	14	47.05	37	27.6	14
18	53.71	34	26.8	15	47.42	35	29.0	15
28	54.05	33	28.3	17	47.77	34	30.5	16
Sept. 7	54.38	30	30.0	17	48.11	31	32.1	17
17	54.68	28	31.7	17	48.42	29	33.8	18
27	54.96	24	33.4	17	48.71	26	35.6	18
Oct. 7	55.20	22	35.1	17	48.97	22	37.4	18
17	55.42	18	36.8	17	49.19	18	39.2	17
27	55.60	14	38.5	16	49.37	15	40.9	17
Nov. 6	55.74	10	40.1	15	49.52	11	42.6	17
16	55.84	6	41.6	13	49.63	6	44.3	14
26	55.90	2	42.9	12	49.69	3	45.7	13
Dec. 6	55.92	2	44.1	10	49.72	2	47.0	12
16	55.90	6	45.1	8	49.70	7	48.2	9
26	55.84	11	45.9	5	49.63	11	49.1	6
36	55.73		46.4		49.52		49.7	
Mittl. Ort	49.76		24.8		43.42		27.8	
		49)				50)		

1901	δ Arietis. $4^m.1$. AR.		Decl. +		48 H. Cephei. $6^m.1$. AR.		Decl. +	
	$3^h\ 5^m$		19° 21′		$3^h\ 7^m$		77° 22′	
Jan. 0	59.96	9	13.2	3	51.38	62	32.7	18
10	59.87	11	12.9	3	50.76	75	34.5	13
20	59.76	14	12.6	5	50.01	83	35.8	8
30	59.62	16	12.1	5	49.18	89	36.6	2
Febr. 9	59.46	16	11.6	6	48.29	90	36.8	4
19	59.30	17	11.0	6	47.39	88	36.4	10
März 1	59.13	15	10.4	7	46.51	81	35.4	15
11	58.98	14	9.7	6	45.70	70	33.9	20
21	58.84	10	9.1	6	45.00	58	31.9	24
31	58.74	7	8.5	5	44.42	41	29.5	26
April 10	58.67	3	8.0	4	44.01	23	26.9	28
20	58.64	2	7.6	2	43.78	4	24.1	29
30	58.66	9	7.4	0	43.74	14	21.2	28
Mai 10	[9] 58.75	12	7.4	2	43.88	38	18.4	30
20	58.87	17	7.6	4	[10] 44.26	53	15.4	25
30	59.04	20	8.0	6	44.79	69	12.9	22
Juni 9	59.24	25	8.6	8	45.48	82	10.7	18
19	59.49	28	9.4	10	46.30	94	8.9	14
29	59.77	29	10.4	11	47.24	104	7.5	9
Juli 9	60.06	31	11.5	13	48.28	110	6.6	5
19	60.37	32	12.8	13	49.38	114	6.1	0
29	60.69	31	14.1	13	50.52	117	6.1	5
Aug. 8	61.00	31	15.4	14	51.69	115	6.6	9
18	61.31	30	16.8	13	52.84	112	7.5	14
28	61.61	28	18.1	12	53.96	107	8.9	18
Sept. 7	61.89	26	19.3	11	55.03	100	10.7	21
17	62.15	24	20.4	10	56.03	92	12.8	25
27	62.39	21	21.4	9	56.95	82	15.3	27
Oct. 7	62.60	19	22.3	7	57.77	70	18.0	30
17	62.79	15	23.0	5	58.47	56	21.0	32
27	62.94	13	23.5	5	59.03	41	24.2	33
Nov. 6	63.07	10	24.0	3	59.44	26	27.5	32
16	63.17	6	24.3	1	59.70	9	30.7	32
26	63.23	3	24.4	1	59.79	8	33.9	31
Dec. 6	63.26	1	24.5	0	59.71	25	37.0	29
16	63.25	4	24.5	1	59.46	42	39.9	25
26	63.21	8	24.4	3	59.04	56	42.4	21
36	63.13		24.1		58.48		44.5	
Mittl. Ort	57.95		8.6		44.23		16.8	
		359)				360)		

1901	12 Eridani. $3^m.3$.				α Persei. $2^m.0$.				o Tauri. $3^m.6$.				2 H. Camelop. $4^m.6$.			
	AR.		Decl. −		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$3^h\ 7^m$		$29°\ 22'$		$3^h\ 17^m$		$49°\ 30'$		$3^h\ 19^m$		$8°\ 40'$		$3^h\ 21^m$		$59°\ 35'$	
Jan. 0	53.54	14	46.9	15	18.00	15	43.1	9	30.99	7	51.1	6	6.47	20	56.6	14
10	53.40	16	48.4	12	17.85	19	44.0	6	30.92	11	50.5	6	6.27	26	58.0	10
20	53.24	18	49.6	8	17.66	22	44.6	3	30.81	13	49.9	6	6.01	31	59.0	5
30	53.06	19	50.4	4	17.44	25	44.9	2	30.68	16	49.3	6	5.70	34	59.5	0
Febr. 9	52.87	20	50.8	0	17.19	26	44.7	5	30.52	16	48.7	5	5.36	36	59.5	4
19	52.67	20	50.8	4	16.93	26	44.2	9	30.36	16	48.2	4	5.00	35	59.1	8
März 1	52.47	19	50.4	8	16.67	25	43.3	12	30.20	15	47.8	4	4.65	33	58.3	13
11	52.28	17	49.6	12	16.42	22	42.1	14	30.05	14	47.4	2	4.32	29	57.0	17
21	52.11	14	48.4	16	16.20	17	40.7	17	29.91	11	47.2	1	4.03	24	55.3	19
31	51.97	10	46.8	19	16.03	13	39.0	18	29.80	8	47.1	0	3.79	18	53.4	21
April 10	51.87	6	44.9	22	15.90	6	37.2	19	29.72	4	47.1	2	3.61	9	51.3	23
20	51.81	2	42.7	24	15.84	1	35.3	19	29.68	0	47.3	4	3.52	1	49.0	23
30	51.79	4	40.3	26	15.85	7	33.4	17	29.68	6	47.7	6	3.51	7	46.7	22
Mai 10	51.83	9	37.7	31	15.92	16	31.7	17	29.74	11	48.3	9	3.58	18	44.5	22
20	[10] 51.92	14	34.6	28	[12] 16.08	22	30.0	13	[13] 29.85	14	49.2	10	[13] 3.76	25	42.3	19
30	52.06	18	31.8	29	16.30	27	28.7	11	29.99	19	50.2	11	4.01	32	40.4	15
Juni 9	52.24	22	28.9	28	16.57	32	27.6	7	30.18	22	51.3	12	4.33	39	38.9	12
19	52.46	26	26.1	27	16.89	37	26.9	5	30.40	25	52.5	14	4.72	45	37.7	9
29	52.72	28	23.4	24	17.26	39	26.4	1	30.65	27	53.9	15	5.17	48	36.8	5
Juli 9	53.00	30	21.0	22	17.65	42	26.3	2	30.92	29	55.4	14	5.65	52	36.3	2
19	53.30	31	18.8	18	18.07	44	26.5	6	31.21	30	56.8	15	6.17	53	36.1	3
29	53.61	31	17.0	15	18.51	44	27.1	8	31.51	30	58.3	14	6.70	54	36.4	6
Aug. 8	53.92	32	15.5	10	18.95	43	27.9	11	31.81	30	59.7	12	7.24	54	37.0	10
18	54.24	30	14.5	5	19.38	41	29.0	14	32.11	28	60.9	11	7.78	53	38.0	12
28	54.54	29	14.0	0	19.79	40	30.4	16	32.39	27	62.0	10	8.31	50	39.2	16
Sept. 7	54.83	27	14.0	4	20.19	38	32.0	17	32.66	26	63.0	7	8.81	48	40.8	18
17	55.10	24	14.4	10	20.57	35	33.7	19	32.92	24	63.7	5	9.29	43	42.6	21
27	55.34	20	15.4	13	20.92	31	35.6	20	33.16	21	64.2	3	9.72	40	44.7	23
Oct. 7	55.54	18	16.7	18	21.23	28	37.6	20	33.37	18	64.5	1	10.12	35	47.0	24
17	55.72	13	18.5	20	21.51	23	39.6	21	33.55	16	64.6	1	10.47	30	49.4	25
27	55.85	10	20.5	23	21.74	19	41.7	21	33.71	13	64.5	3	10.77	24	51.9	25
Nov. 6	55.95	7	22.8	24	21.93	15	43.8	21	33.84	11	64.2	3	11.01	18	54.4	25
16	56.02	2	25.2	25	22.08	9	45.9	19	33.95	7	63.9	5	11.19	11	56.9	25
26	56.04	1	27.7	24	22.17	4	47.8	19	34.02	4	63.4	6	11.30	4	59.4	24
Dec. 6	56.03	5	30.1	22	22.21	1	49.7	16	34.06	0	62.8	6	11.34	4	61.8	21
16	55.98	9	32.3	20	22.20	7	51.3	14	34.06	4	62.2	7	11.30	11	63.9	19
26	55.89	12	34.3	17	22.13	12	52.7	11	34.02	6	61.5	6	11.19	17	65.8	16
36	55.77		36.0		22.01		53.8		33.96		60.9		11.02		67.4	
Mittl. Ort	51.93		38.3		15.07		32.1		29.06		50.1		2.84		44.1	
			549)				52)				53)				361)	

1901	*f* Tauri. $4^m.0$ AR.		Decl. +		ε Eridani. $3^m.0$ AR.		Decl. −		δ Persei. $3^m.1$ AR.		Decl. +		ν Persei. $4^m.0$ AR.		Decl. +	
	$3^h\ 25^m$		12° 35′		$3^h\ 28^m$		9° 47′		$3^h\ 35^m$		47° 28′		$3^h\ 38^m$		42° 15′	
Jan. 0	26.33	7	52.9	4	17.70	9	40.8	12	55.30	12	25.2	10	30.70	10	65.0	8
10	26.26	11	52.5	5	17.61	12	42.0	11	55.18	16	26.2	7	30.60	14	65.8	5
20	26.15	13	52.0	6	17.49	14	43.1	9	55.02	20	26.9	3	30.46	18	66.3	2
30	26.02	15	51.4	5	17.35	16	44.0	6	54.82	24	27.2	0	30.28	21	66.5	1
Febr. 9	25.87	16	50.9	5	17.19	17	44.6	4	54.58	25	27.2	4	30.07	23	66.4	4
19	25.71	17	50.4	5	17.02	17	45.0	1	54.33	25	26.8	7	29.84	23	66.0	6
März 1	25.54	16	49.9	4	16.85	17	45.1	2	54.08	25	26.1	10	29.61	22	65.4	9
11	25.38	14	49.5	4	16.68	15	44.9	4	53.83	22	25.1	13	29.39	20	64.5	12
21	25.24	12	49.1	3	16.53	13	44.5	6	53.61	19	23.8	15	29.19	17	63.3	13
31	25.12	8	48.8	1	16.40	9	43.9	9	53.42	14	22.3	16	29.02	12	62.0	14
April 10	25.04	4	48.7	0	16.31	6	43.0	12	53.28	8	20.7	17	28.90	8	60.6	15
20	25.00	0	48.7	1	16.25	2	41.8	14	53.20	1	19.0	17	28.82	1	59.1	15
30	25.00	4	48.8	4	16.23	3	40.4	16	53.19	5	17.3	17	28.81	4	57.6	14
Mai 10	25.04	11	49.2	6	16.26	9	38.8	20	53.24	13	15.6	16	28.85	12	56.2	13
20	[11] 25.15	14	49.8	7	[15] 16.35	12	36.8	19	[17] 53.37	18	14.0	13	[18] 28.97	17	54.9	10
30	25.29	19	50.5	9	16.47	16	34.9	21	53.55	24	12.7	11	29.14	22	53.9	8
Juni 9	25.48	22	51.4	11	16.63	20	32.8	21	53.79	29	11.6	8	29.36	27	53.1	6
19	25.70	25	52.5	12	16.83	23	30.7	21	54.08	34	10.8	5	29.63	31	52.5	3
29	25.95	28	53.7	12	17.06	26	28.6	20	54.42	37	10.3	2	29.94	35	52.2	0
Juli 9	26.23	29	54.9	14	17.32	28	26.6	19	54.79	40	10.1	1	30.29	36	52.2	2
19	26.52	30	56.3	13	17.60	29	24.7	18	55.19	41	10.2	4	30.65	38	52.4	5
29	26.82	31	57.6	13	17.89	29	22.9	15	55.60	42	10.6	6	31.03	39	52.9	8
Aug. 8	27.13	30	58.9	13	18.18	29	21.4	12	56.02	42	11.2	9	31.42	39	53.7	9
18	27.43	29	60.2	11	18.47	28	20.2	9	56.44	42	12.1	11	31.81	38	54.6	11
28	27.72	28	61.3	10	18.75	27	19.3	5	56.86	40	13.2	14	32.19	37	55.7	13
Sept. 7	28.00	26	62.3	9	19.02	25	18.8	2	57.26	37	14.6	15	32.56	35	57.0	14
17	28.26	24	63.2	6	19.27	23	18.6	2	57.63	35	16.1	16	32.91	32	58.4	15
27	28.50	22	63.8	4	19.50	21	18.8	5	57.98	33	17.7	18	33.23	30	59.9	15
Oct. 7	28.72	19	64.2	3	19.71	19	19.3	9	58.31	29	19.5	18	33.53	27	61.4	16
17	28.91	17	64.5	1	19.90	15	20.2	11	58.60	25	21.3	19	33.80	24	63.0	17
27	29.08	15	64.6	0	20.05	13	21.3	14	58.85	21	23.2	19	34.04	20	64.7	16
Nov. 6	29.23	11	64.6	2	20.18	9	22.7	15	59.06	16	25.1	19	34.24	16	66.3	16
16	29.34	8	64.4	2	20.27	7	24.2	16	59.22	12	27.0	18	34.40	12	67.9	15
26	29.42	4	64.2	4	20.34	3	25.8	16	59.34	7	28.8	17	34.52	7	69.4	14
Dec. 6	29.46	1	63.8	4	20.37	1	27.4	16	59.41	2	30.5	16	34.59	2	70.8	13
16	29.47	3	63.4	5	20.36	4	29.0	15	59.43	5	32.1	14	34.61	3	72.1	11
26	29.44	6	62.9	4	20.32	7	30.5	13	59.38	9	33.5	11	34.58	8	73.2	9
36	29.38		62.5		20.25		31.8		59.29		34.6		34.50		74.1	
Mittl. Ort	24.32		51.2		15.90		36.6		52.35		16.0		27.96		57.0	
	55)				56)				57)				59)			

1901	5 H.Camelop. $4^m.3$				η Tauri. $3^m.0$				τ^6 Eridani. $4^m.0$				ζ Persei. $3^m.0$			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. —		AR.		Decl. +	
	$3^h\ 39^m$		71° 1′		$3^h\ 41^m$		23° 47′		$3^h\ 42^m$		23° 32′		$3^h\ 47^m$		31° 35′	
Jan. 0	59.31		50.8		38.09		60.8		37.06		40.5		56.87		28.3	
10	58.99	32	52.7	19	38.02	7	60.7	1	36.97	9	42.3	18	56.80	7	28.7	4
20	58.57	42	54.2	15	37.92	10	60.6	1	36.83	14	43.7	14	56.68	12	28.9	2
30	58.07	50	55.2	10	37.78	14	60.4	2	36.67	16	44.8	11	56.54	14	28.9	0
Febr. 9	57.52	55	55.7	5	37.62	16	60.1	3	36.49	18	45.5	7	56.37	17	28.7	2
19	56.94	58	55.6	1	37.45	17	59.6	5	36.30	19	45.9	4	56.18	19	28.3	4
März 1	56.35	59	55.0	6	37.27	18	59.0	6	36.11	19	45.9	0	55.98	20	27.8	5
11	55.78	57	53.9	11	37.09	18	58.4	6	35.91	20	45.5	4	55.79	19	27.1	7
21	55.27	51	52.3	16	36.93	16	57.8	6	35.73	18	44.8	7	55.61	18	26.2	9
31	54.83	44	50.3	20	36.79	14	57.1	7	35.58	15	43.7	11	55.46	15	25.3	9
April 10	54.50	33	48.0	23	36.69	10	56.4	7	35.45	13	42.2	15	55.35	11	24.3	10
20	54.27	23	45.5	25	36.63	6	55.8	6	35.37	8	40.5	17	55.28	7	23.4	9
30	54.17	10	42.9	26	36.62	1	55.4	4	35.32	5	38.5	20	55.26	2	22.5	9
Mai 10	54.20	3	40.3	26	36.66	4	55.0	4	35.32	0	36.3	22	55.29	3	21.7	8
20	[18] 54.39	19	37.4	29	[18] 36.75	9	54.8	2	[19] 35.38	6	33.7	26	55.37	8	21.0	7
30	54.69	30	35.0	24	36.89	14	54.9	1	35.48	10	31.1	26	[20] 55.52	15	20.5	5
Juni 9	55.10	41	32.8	22	37.08	19	55.1	2	35.63	15	28.5	26	55.71	19	20.3	2
19	55.62	52	30.9	19	37.30	22	55.5	4	35.82	19	25.9	26	55.95	24	20.2	1
29	56.23	61	29.4	15	37.56	26	56.1	6	36.04	22	23.4	25	56.22	27	20.3	1
Juli 9	56.91	68	28.3	11	37.84	28	56.8	7	36.29	25	21.0	24	56.52	30	20.7	4
19	57.65	74	27.6	7	38.15	31	57.6	8	36.57	28	18.8	22	56.84	32	21.3	6
29	58.42	77	27.3	3	38.47	32	58.6	10	36.86	29	16.9	19	57.18	34	22.0	7
Aug. 8	59.23	81	27.4	1	38.79	32	59.7	11	37.16	30	15.3	16	57.52	34	22.8	8
18	60.04	81	27.9	5	39.11	32	60.8	11	37.46	30	14.1	12	57.86	34	23.8	10
28	60.84	80	28.9	10	39.42	31	61.9	11	37.76	30	13.4	7	58.20	34	24.8	10
Sept. 7	61.62	78	30.2	13	39.73	31	63.0	11	38.05	29	13.0	4	58.52	32	25.9	11
17	62.37	75	31.9	17	40.02	29	64.0	10	38.32	27	13.2	2	58.84	32	27.0	11
27	63.07	70	33.9	20	40.29	27	64.9	9	38.57	25	13.9	7	59.13	29	28.2	12
Oct. 7	63.71	64	36.2	23	40.54	25	65.7	8	38.80	23	15.0	11	59.40	27	29.3	11
17	64.27	56	38.7	25	40.76	22	66.5	8	39.00	20	16.4	14	59.65	25	30.4	11
27	64.76	49	41.4	27	40.96	20	67.2	7	39.17	17	18.2	18	59.87	22	31.4	10
Nov. 6	65.17	41	44.3	29	41.13	17	67.7	5	39.31	14	20.3	21	60.05	18	32.4	10
16	65.47	30	47.3	30	41.27	14	68.2	5	39.41	10	22.5	22	60.21	16	33.3	9
26	65.65	18	50.2	29	41.37	10	68.6	4	39.48	7	24.8	23	60.33	12	34.2	9
Dec. 6	65.72	7	53.1	29	41.44	7	68.9	3	39.51	3	27.2	24	60.40	7	34.9	7
16	65.68	4	55.8	27	41.46	2	69.1	2	39.50	1	29.5	23	60.44	4	35.6	7
26	65.51	17	58.2	24	41.45	1	69.2	1	39.45	5	31.6	21	60.43	1	36.2	6
36	65.23	28	60.3	21	41.40	5	69.3	1	39.37	8	33.4	18	60.37	6	36.6	4
Mittl. Ort	53.82		38.5		35.83		57.0		35.27		32.9		54.41		23.3	
	364)				61)				551)				63)			

1901	9 H. Camelop. 6m.0. AR.		Decl. +		ε Persei. 3m.3. AR.		Decl. +		ξ Persei. 4m.0. AR.		Decl. +		γ Eridani. 3m.0. AR.		Decl. —	
	3h 48m		60° 48′		3h 51m		39° 43′		3h 52m		35° 30′		3h 53m		13° 47′	
Jan. 0	45.43	17	79.4	16	15.17	9	33.0	7	34.93	7	28.6	5	26.44	7	30.1	15
10	45.26	24	81.0	13	15.08	12	33.7	5	34.86	12	29.1	4	26.37	11	31.6	13
20	45.02	30	82.3	8	14.96	17	34.2	3	34.74	15	29.5	1	26.26	13	32.9	10
30	44.72	34	83.1	4	14.79	19	34.5	0	34.59	18	29.6	—1	26.13	16	33.9	8
Febr. 9	44.38	37	83.5	—1	14.60	21	34.5	3	34.41	20	29.5	3	25.97	18	34.7	5
19	44.01	38	83.4	5	14.39	23	34.2	6	34.21	21	29.2	5	25.79	18	35.2	2
März 1	43.63	36	82.9	10	14.16	21	33.6	8	34.00	21	28.7	7	25.61	18	35.4	—2
11	43.27	34	81.9	14	13.95	21	32.8	9	33.79	19	28.0	9	25.43	17	35.2	4
21	42.93	29	80.5	17	13.74	17	31.9	12	33.60	16	27.1	11	25.26	14	34.8	7
31	42.64	22	78.8	20	13.57	13	30.7	13	33.44	12	26.0	11	25.12	12	34.1	10
April 10	42.42	14	76.8	22	13.44	8	29.4	13	33.32	8	24.9	11	25.00	8	33.1	12
20	42.28	7	74.6	22	13.36	3	28.1	13	33.24	3	23.8	11	24.92	4	31.9	15
30	42.21	—3	72.4	23	13.33	—3	26.8	13	33.21	—3	22.7	10	24.88	0	30.4	18
Mai 10	42.24	11	70.1	22	13.36	8	25.5	11	33.24	8	21.7	9	24.88	5	28.6	19
20	42.35	22	67.9	22	13.44	17	24.4	10	33.32	16	20.8	8	24.93	10	26.7	23
30	42.57	28	65.7	18	13.61	20	23.4	8	33.48	19	20.0	5	25.03	14	24.4	22
Juni 9	42.85	36	63.9	15	13.81	25	22.6	5	33.67	24	19.5	3	25.17	18	22.2	22
19	43.21	43	62.4	12	14.06	29	22.1	3	33.91	27	19.2	1	25.35	22	20.0	22
29	43.64	47	61.2	9	14.35	32	21.8	0	34.18	31	19.1	—2	25.57	24	17.8	22
Juli 9	44.11	51	60.3	5	14.67	35	21.8	2	34.49	33	19.3	4	25.81	27	15.6	20
19	44.62	54	59.8	1	15.02	37	22.0	5	34.82	35	19.7	6	26.08	28	13.6	18
29	45.16	56	59.7	—2	15.39	37	22.5	6	35.17	35	20.3	7	26.36	28	11.8	16
Aug. 8	45.72	56	59.9	5	15.76	37	23.1	8	35.52	36	21.0	8	26.64	29	10.2	12
18	46.28	56	60.4	9	16.13	37	23.9	10	35.88	35	21.8	10	26.93	29	9.0	9
28	46.84	54	61.3	12	16.50	36	24.9	11	36.23	34	22.8	11	27.22	28	8.1	5
Sept. 7	47.38	52	62.5	15	16.86	34	26.0	13	36.57	33	23.9	11	27.50	27	7.6	1
17	47.90	49	64.0	18	17.20	33	27.3	13	36.90	31	25.0	12	27.77	25	7.5	—3
27	48.39	45	65.8	20	17.53	30	28.6	13	37.21	29	26.2	12	28.02	23	7.8	6
Oct. 7	48.84	41	67.8	21	17.83	28	29.9	14	37.50	26	27.4	12	28.25	21	8.4	11
17	49.25	36	69.9	23	18.11	24	31.3	15	37.76	23	28.6	12	28.46	18	9.5	14
27	49.61	30	72.2	25	18.35	21	32.8	14	37.99	20	29.8	12	28.64	15	10.9	15
Nov. 6	49.91	24	74.7	25	18.56	18	34.2	13	38.19	17	31.0	11	28.79	12	12.4	18
16	50.15	17	77.2	25	18.74	13	35.5	14	38.36	13	32.1	11	28.91	9	14.2	19
26	50.32	9	79.7	24	18.87	8	36.9	13	38.49	8	33.2	10	29.00	5	16.1	19
Dec. 6	50.41	2	82.1	22	18.95	4	38.2	11	38.57	4	34.2	9	29.05	1	18.0	19
16	50.43	—7	84.3	21	18.99	—1	39.3	10	38.61	—1	35.1	8	29.06	—2	19.9	18
26	50.36	14	86.4	18	18.98	6	40.3	8	38.60	5	35.9	7	29.04	6	21.7	16
36	50.22		88.2		18.92		41.1		38.55		36.6		28.98		23.3	
Mittl. Ort	41.46		69.2		12.45		26.5		32.34		23.0		24.57		24.5	
	365)				64)				65)				552)			

1901	λ Tauri. 3.4...4^m.2. AR.		Decl. +		ν Tauri. 4^m.0. AR.		Decl. +		c Persei. 4^m.0. AR.		Decl. +		o¹ Eridani. 4^m.4. AR.		Decl. —	
	$3^h\ 55^m$		12° 12′		$3^h\ 57^m$		5° 42′		$4^h\ 1^m$		47° 26′		$4^h\ 7^m$		7° 5′	
	s		″		s		″		s		″		s		″	
Jan. 0	13.76	5	38.7	5	55.40	5	51.3	8	31.35	9	60.8	12	3.91	5	48.6	14
10	13.71	9	38.2	5	55.35	9	50.5	7	31.26	14	62.0	8	3.86	10	50.0	12
20	13.62	12	37.7	5	55.26	12	49.8	6	31.12	19	62.8	6	3.76	12	51.2	9
30	13.50	15	37.2	5	55.14	15	49.2	6	30.93	23	63.4	2	3.64	15	52.1	8
Febr. 9	13.35	16	36.7	4	54.99	16	48.6	5	30.70	25	63.6	1	3.49	17	52.9	5
19	13.19	17	36.3	4	54.83	16	48.1	4	30.45	26	63.5	4	3.32	17	53.4	3
März 1	13.02	17	35.9	4	54.67	17	47.7	2	30.19	25	63.1	8	3.15	18	53.7	1
11	12.85	16	35.5	3	54.50	16	47.5	1	29.94	24	62.3	10	2.97	16	53.8	2
21	12.69	14	35.2	3	54.34	14	47.4	0	29.70	21	61.3	13	2.81	15	53.6	5
31	12.55	10	34.9	1	54.20	11	47.4	1	29.49	17	60.0	15	2.66	12	53.1	6
April 10	12.45	7	34.8	0	54.09	7	47.5	3	29.32	11	58.5	17	2.54	9	52.5	9
20	12.38	3	34.8	2	54.02	3	47.8	5	29.21	5	56.8	16	2.45	5	51.6	12
30	12.35	2	35.0	3	53.99	1	48.3	7	29.16	2	55.2	16	2.40	0	50.4	14
Mai 10	12.37	7	35.3	5	54.00	6	49.0	9	29.18	8	53.6	16	2.40	4	49.0	15
20	12.44	12	35.8	7	54.06	12	49.9	11	29.26	16	52.0	15	2.44	10	47.5	19
30	22 12.56	16	36.5	8	22 54.18	15	51.0	12	23 29.42	21	50.5	12	25 2.54	13	45.6	18
Juni 9	12.72	19	37.3	10	54.33	19	52.2	13	29.63	26	49.3	10	2.67	17	43.8	19
19	12.91	23	38.3	10	54.52	22	53.5	13	29.89	31	48.3	7	2.84	21	41.9	20
29	13.14	26	39.3	12	54.74	25	54.8	14	30.20	35	47.6	5	3.05	23	39.9	19
Juli 9	13.40	28	40.5	12	54.99	27	56.2	15	30.55	38	47.1	2	3.28	26	38.0	18
19	13.68	29	41.7	12	55.26	28	57.7	14	30.93	41	46.9	1	3.54	27	36.2	17
29	13.97	30	42.9	12	55.54	29	59.1	13	31.34	41	47.0	4	3.81	28	34.5	15
Aug. 8	14.27	30	44.1	11	55.83	29	60.4	11	31.75	42	47.4	6	4.09	29	33.0	12
18	14.57	30	45.2	10	56.12	29	61.5	10	32.17	42	48.0	8	4.38	29	31.8	10
28	14.87	28	46.2	9	56.41	29	62.5	8	32.59	40	48.8	10	4.67	28	30.8	6
Sept. 7	15.15	28	47.1	7	56.70	27	63.3	5	32.99	40	49.8	12	4.95	27	30.2	3
17	15.43	26	47.8	5	56.97	25	63.8	3	33.39	37	51.0	14	5.22	25	29.9	1
27	15.69	24	48.3	3	57.22	24	64.1	1	33.76	35	52.4	15	5.47	24	30.0	4
Oct. 7	15.93	22	48.6	2	57.46	21	64.2	2	34.11	32	53.9	16	5.71	22	30.4	8
17	16.15	19	48.8	1	57.67	20	64.0	4	34.43	29	55.5	17	5.93	19	31.2	10
27	16.34	17	48.7	1	57.87	16	63.6	5	34.72	25	57.2	17	6.12	17	32.2	13
Nov. 6	16.51	14	48.6	3	58.03	14	63.1	7	34.97	20	58.9	18	6.29	13	33.5	14
16	16.65	11	48.3	4	58.17	11	62.4	7	35.17	16	60.7	17	6.42	11	34.9	16
26	16.76	8	47.9	4	58.28	7	61.7	9	35.33	11	62.4	17	6.53	7	36.5	16
Dec. 6	16.84	3	47.5	5	58.35	3	60.8	9	35.44	5	64.1	16	6.60	3	38.1	16
16	16.87	0	47.0	5	58.38	0	59.9	8	35.49	1	65.7	15	6.63	0	39.7	15
26	16.87	4	46.5	5	58.38	4	59.1	8	35.48	7	67.2	12	6.63	4	41.2	14
36	16.83		46.0		58.34		58.3		35.41		68.4		6.59		42.6	
Mittl. Ort	11.64		38.4		53.35		52.7		28.26		53.8		1.94		44.2	
	66)				67)				69)				366)			

1901	δ Tauri. $4^m.0$. AR.	Δ	δ Tauri. Decl. +	Δ	ε Tauri. $3^m.6$. AR.	Δ	ε Tauri. Decl. +	Δ	α Tauri. 1^m. AR.	Δ	α Tauri. Decl. +	Δ	ν Eridani. $3^m.3$. AR.	Δ	ν Eridani. Decl. −	Δ
	$4^h\ 17^m$		17° 18′		$4^h\ 22^m$		18° 57′		$4^h\ 30^m$		16° 18′		$4^h\ 31^m$		3° 33′	
Jan. 0	15.72	4	37.8	3	52.39	3	39.7	2	16.60	3	36.6	3	24.31	3	21.3	13
10	15.68	8	37.5	3	52.36	8	39.5	3	16.57	7	36.3	3	24.28	8	22.6	11
20	15.60	11	37.2	3	52.28	11	39.2	2	16.50	10	36.0	4	24.20	11	23.7	10
30	15.49	14	36.9	3	52.17	14	39.0	3	16.40	14	35.6	3	24.09	14	24.7	7
Febr. 9	15.35	17	36.6	4	52.03	17	38.7	3	16.26	16	35.3	3	23.95	16	25.4	6
19	15.18	18	36.2	4	51.86	18	38.4	4	16.10	18	35.0	4	23.79	17	26.0	4
März 1	15.00	18	35.8	3	51.68	18	38.0	4	15.92	18	34.6	3	23.62	18	26.4	2
11	14.82	17	35.5	4	51.50	17	37.6	4	15.74	17	34.3	4	23.44	18	26.6	— 1
21	14.65	15	35.1	4	51.33	16	37.2	3	15.57	16	33.9	3	23.26	16	26.5	2
31	14.50	12	34.7	3	51.17	13	36.9	4	15.41	13	33.6	2	23.10	13	26.3	5
April 10	14.38	9	34.4	2	51.04	9	36.5	3	15.28	10	33.4	2	22.97	10	25.8	7
20	14.29	4	34.2	2	50.95	5	36.2	2	15.18	5	33.2	1	22.87	6	25.1	9
30	14.25	0	34.0	0	50.90	0	36.0	1	15.13	1	33.1	— 1	22.81	3	24.2	11
Mai 10	14.25	4	34.0	2	50.90	4	35.9	0	15.12	— 3	33.2	1	22.78	— 2	23.1	13
20	14.29	11	34.2	3	50.94	10	35.9	2	15.15	8	33.3	3	22.80	7	21.8	14
30	[27] 14.40	15	34.5	4	[29] 51.04	14	36.1	3	15.23	14	33.6	5	22.87	12	20.4	17
Juni 9	14.55	18	34.9	6	51.18	19	36.4	5	[30] 15.37	17	34.1	6	[31] 22.99	16	18.7	17
19	14.73	22	35.5	8	51.37	21	36.9	6	15.54	21	34.7	7	23.15	19	17.0	17
29	14.95	25	36.3	8	51.58	25	37.5	8	15.75	24	35.4	8	23.34	21	15.3	17
Juli 9	15.20	27	37.1	9	51.83	27	38.3	8	15.99	26	36.2	9	23.55	24	13.6	17
19	15.47	29	38.0	10	52.10	30	39.1	8	16.25	28	37.1	9	23.79	27	11.9	16
29	15.76	30	39.0	9	52.40	30	39.9	9	16.53	30	38.0	9	24.06	27	10.3	14
Aug. 8	16.06	31	39.9	9	52.70	30	40.8	9	16.83	30	38.9	9	24.33	29	8.9	12
18	16.37	30	40.8	9	53.00	31	41.7	8	17.13	30	39.8	8	24.62	28	7.7	9
28	16.67	30	41.7	8	53.31	30	42.5	8	17.43	30	40.6	7	24.90	28	6.8	7
Sept. 7	16.97	29	42.5	7	53.61	30	43.3	6	17.73	30	41.3	6	25.18	28	6.1	3
17	17.26	28	43.2	5	53.91	28	43.9	6	18.03	28	41.9	4	25.46	27	5.8	0
27	17.54	26	43.7	4	54.19	27	44.5	4	18.31	26	42.3	3	25.73	25	5.8	3
Oct. 7	17.80	24	44.1	3	54.46	25	44.9	3	18.57	25	42.6	2	25.98	23	6.1	7
17	18.04	23	44.4	1	54.71	23	45.2	2	18.82	23	42.8	0	26.21	21	6.8	9
27	18.27	20	44.5	1	54.94	20	45.4	1	19.05	21	42.8	0	26.42	19	7.7	11
Nov. 6	18.47	16	44.6	— 1	55.14	18	45.5	0	19.26	18	42.8	2	26.61	17	8.8	13
16	18.63	13	44.5	1	55.32	14	45.5	0	19.44	15	42.6	3	26.78	13	10.1	14
26	18.76	11	44.4	2	55.46	10	45.5	1	19.59	11	42.3	2	26.91	10	11.5	15
Dec. 6	18.87	6	44.2	2	55.56	7	45.4	1	19.70	7	42.1	3	27.01	6	13.0	14
16	18.93	2	44.0	2	55.63	3	45.3	1	19.77	3	41.8	3	27.07	2	14.4	14
26	18.95	— 2	43.8	3	55.66	— 2	45.2	2	19.80	— 1	41.5	4	27.09	— 2	15.8	14
36	18.93		43.5		55.64		45.0		19.79		41.1		27.07		17.2	
Mittl. Ort	13.44		37.6		50.07		39.5		14.29		37.3		22.23		16.9	
	71)				72)				73)				74)			

1901	53 Eridani. $4^m.0$.				Gr. 848. $6^m.1$.				τ Tauri. $4^m.3$.				4 Camelop. $5^m.8$.			
	AR.		Decl. −		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$4^h\ 33^m$	Δ	$14^\circ\ 29'$	Δ	$4^h\ 35^m$	Δ	$75^\circ\ 45'$	Δ	$4^h\ 36^m$	Δ	$22^\circ\ 45'$	Δ	$4^h\ 39^m$	Δ	$56^\circ\ 34'$	Δ
Jan. 0	40.70	5	58.0	18	37.98	27	48.0	25	20.52	2	62.0	0	49.02	7	58.0	17
10	40.65	9	59.8	15	37.71	44	50.5	21	20.50	7	62.0	0	48.95	14	59.7	15
20	40.56	12	61.3	13	37.27	57	52.6	17	20.43	11	62.0	1	48.81	21	61.2	12
30	40.44	16	62.6	10	36.70	68	54.3	13	20.32	14	61.9	1	48.60	26	62.4	8
Febr. 9	40.28	17	63.6	6	36.02	76	55.6	7	20.18	16	61.8	2	48.34	31	63.2	4
19	40.11	18	64.2	4	35.26	80	56.3	2	20.02	18	61.6	3	48.03	33	63.6	0
März 1	39.93	19	64.6	1	34.46	81	56.5	4	19.84	19	61.3	4	47.70	33	63.6	4
11	39.74	19	64.7	3	33.65	78	56.1	10	19.65	19	60.9	4	47.37	33	63.2	7
21	39.55	17	64.4	5	32.87	71	55.1	14	19.46	17	60.5	4	47.04	30	62.5	12
31	39.38	15	63.9	8	32.16	61	53.7	19	19.29	14	60.1	5	46.74	25	61.3	14
April 10	39.23	11	63.1	11	31.55	49	51.8	22	19.15	10	59.6	4	46.49	19	59.9	17
20	39.12	8	62.0	14	31.06	34	49.6	25	19.05	6	59.2	4	46.30	13	58.2	19
30	39.04	3	60.6	16	30.72	18	47.1	27	18.99	2	58.8	3	46.17	6	56.3	20
Mai 10	39.01	1	59.0	19	30.54	2	44.4	27	18.97	3	58.5	2	46.11	2	54.3	20
20	39.02	6	57.1	19	30.52	15	41.7	28	19.00	8	58.3	1	46.13	10	52.3	20
30	39.08	11	55.2	23	30.67	35	38.9	29	19.08	14	58.2	0	46.23	20	50.3	20
Juni 9	31 39.19	14	52.9	22	31.02	48	36.0	25	19.22	18	58.2	2	46.43	25	48.3	17
19	39.33	18	50.7	23	31.50	62	33.5	22	19.40	21	58.4	4	46.68	32	46.6	15
29	39.51	21	48.4	21	32.12	74	31.3	19	19.61	24	58.8	4	47.00	37	45.1	12
Juli 9	39.72	24	46.3	20	32.86	85	29.4	16	19.85	27	59.2	6	47.37	41	43.9	9
19	39.96	26	44.3	19	33.71	93	27.8	12	20.12	30	59.8	6	47.78	45	43.0	7
29	40.22	28	42.4	16	34.64	99	26.6	8	20.42	30	60.4	7	48.23	48	42.3	3
Aug. 8	40.50	28	40.8	14	35.63	104	25.8	4	20.72	31	61.1	7	48.71	50	42.0	0
18	40.78	29	39.4	10	36.67	106	25.4	0	21.03	31	61.8	8	49.21	50	42.0	2
28	41.07	28	38.4	5	37.73	107	25.4	5	21.34	31	62.6	6	49.71	50	42.2	5
Sept. 7	41.35	28	37.9	2	38.80	105	25.9	9	21.65	31	63.2	6	50.21	50	42.7	7
17	41.63	27	37.7	2	39.85	102	26.8	12	21.96	30	63.8	6	50.71	48	43.4	11
27	41.90	25	37.9	6	40.87	97	28.0	16	22.26	28	64.4	4	51.19	46	44.5	13
Oct. 7	42.15	24	38.5	11	41.84	90	29.6	20	22.54	26	64.8	4	51.65	44	45.8	14
17	42.39	21	39.6	14	42.74	82	31.6	23	22.80	25	65.2	3	52.09	39	47.2	17
27	42.60	19	41.0	16	43.56	72	33.9	25	23.05	22	65.5	2	52.48	36	48.9	18
Nov. 6	42.79	16	42.6	19	44.28	59	36.4	27	23.27	19	65.7	2	52.84	30	50.7	20
16	42.95	13	44.5	20	44.87	44	39.1	29	23.46	17	65.9	2	53.14	25	52.7	21
26	43.08	9	46.5	21	45.31	30	42.0	30	23.63	12	66.1	1	53.39	18	54.8	21
Dec. 6	43.17	5	48.6	21	45.61	14	45.0	29	23.75	8	66.2	1	53.57	12	56.9	20
16	43.22	1	50.7	19	45.75	4	47.9	29	23.83	4	66.3	1	53.69	4	58.9	20
26	43.23	3	52.6	19	45.71	20	50.8	26	23.87	0	66.4	0	53.73	4	60.9	19
36	43.20		54.5		45.51		53.4		23.87		66.4		53.69		62.8	
Mittl. Ort	38.67		51.6		30.25		40.9		18.08		61.9		45.15		53.1	
	553)				369)				370)				371)			

1901	9 Camelop. $4^m.3$. AR.		Decl. +		π^5 Orionis. $4^m.0$. AR.		Decl. +		ι Aurigae. $3^m.0$. AR.		Decl. +		10 Camelop. $4^m.0$. AR.		Decl. +	
	$4^h\ 44^m$		66° 10′		$4^h\ 49^m$		2° 16′		$4^h\ 50^m$		33° 0′		$4^h\ 54^m$		60° 17′	
Jan. 0	17.24	11	34.3	21	7.83	2	38.8	10	35.46	2	35.2	6	40.88	6	55.4	20
10	17.13	22	36.4	19	7.81	6	37.8	9	35.44	6	35.8	5	40.82	14	57.4	17
20	16.91	30	38.3	16	7.75	10	36.9	8	35.38	11	36.3	3	40.68	22	59.1	15
30	16.61	38	39.9	11	7.65	13	36.1	7	35.27	15	36.6	2	40.46	29	60.6	11
Febr. 9	16.23	42	41.0	7	7.52	15	35.4	6	35.12	18	36.8	1	40.17	33	61.7	6
19	15.81	47	41.7	2	7.37	17	34.8	4	34.94	20	36.9	— 1	39.84	37	62.3	2
März 1	15.34	48	41.9	— 4	7.20	18	34.4	2	34.74	21	36.8	3	39.47	38	62.5	— 2
11	14.86	46	41.5	8	7.02	18	34.2	1	34.53	21	36.5	5	39.09	37	62.3	6
21	14.40	43	40.7	12	6.84	16	34.1	— 1	34.32	19	36.0	6	38.72	35	61.7	11
31	13.97	36	39.5	16	6.68	14	34.2	3	34.13	16	35.4	8	38.37	30	60.6	14
April 10	13.61	29	37.9	19	6.54	11	34.5	4	33.97	13	34.6	8	38.07	24	59.2	17
20	13.32	21	36.0	22	6.43	8	34.9	5	33.84	8	33.8	8	37.83	18	57.5	19
30	13.11	10	33.8	23	6.35	3	35.4	8	33.76	4	33.0	8	37.65	9	55.6	21
Mai 10	13.01	0	31.5	24	6.32	— 1	36.2	9	33.72	— 2	32.2	8	37.56	1	53.5	21
20	13.01	10	29.1	25	6.33	5	37.1	11	33.74	7	31.4	7	37.55	— 8	51.4	21
30	13.11	23	26.6	25	6.38	11	38.2	13	33.81	14	30.7	7	37.63	18	49.3	23
Juni 9	[3] 13.34	30	24.1	21	[4] 6.49	15	39.5	13	[4] 33.95	17	30.0	4	[5] 37.81	25	47.0	19
19	13.64	40	22.0	19	6.64	18	40.8	14	34.12	22	29.6	4	38.06	32	45.1	17
29	14.04	47	20.1	17	6.82	21	42.2	14	34.34	26	29.2	1	38.38	38	43.4	16
Juli 9	14.51	53	18.4	13	7.03	23	43.6	14	34.60	28	29.1	0	38.76	43	41.8	12
19	15.04	58	17.1	10	7.26	25	45.0	14	34.88	31	29.1	1	39.19	48	40.6	9
29	15.62	63	16.1	7	7.51	27	46.4	12	35.19	32	29.2	3	39.67	52	39.7	7
Aug. 8	16.25	65	15.4	3	7.78	28	47.6	11	35.51	34	29.5	4	40.19	53	39.0	3
18	16.90	67	15.1	0	8.06	29	48.7	9	35.85	34	29.9	4	40.72	55	38.7	0
28	17.57	67	15.1	4	8.35	29	49.6	6	36.19	34	30.3	5	41.27	56	38.7	2
Sept. 7	18.24	66	15.5	7	8.64	28	50.2	3	36.53	34	30.8	6	41.83	55	38.9	6
17	18.90	64	16.2	10	8.92	27	50.5	1	36.87	33	31.4	6	42.38	54	39.5	9
27	19.54	62	17.2	14	9.19	26	50.6	— 2	37.20	32	32.0	6	42.92	52	40.4	11
Oct. 7	20.16	59	18.6	17	9.45	25	50.4	4	37.52	30	32.6	7	43.44	49	41.5	14
17	20.75	53	20.3	20	9.70	23	50.0	6	37.82	28	33.3	7	43.93	46	42.9	17
27	21.28	48	22.3	21	9.93	21	49.4	9	38.10	26	34.0	6	44.39	41	44.6	18
Nov. 6	21.76	40	24.4	23	10.14	18	48.5	11	38.36	23	34.6	7	44.80	36	46.4	20
16	22.16	32	26.7	25	10.32	15	47.4	11	38.59	19	35.3	7	45.16	29	48.4	22
26	22.48	24	29.2	26	10.47	12	46.3	12	38.78	15	36.0	7	45.45	23	50.6	22
Dec. 6	22.72	13	31.8	25	10.59	8	45.1	12	38.93	11	36.7	7	45.68	15	52.8	22
16	22.85	4	34.3	25	10.67	5	43.9	11	39.04	6	37.4	7	45.83	6	55.0	22
26	22.89	— 8	36.8	23	10.72	0	42.8	11	39.10	0	38.1	6	45.89	— 2	57.2	21
36	22.81		39.1		10.72		41.7		39.10		38.7		45.87		59.3	
Mittl. Ort	12.19		28.9		5.64		42.9		32.74		34.5		36.60		51.7	
			76)				78)				79)				80)	

1901	ε Aurig. 3.0...4ᵐ.5.				ι Tauri. 5ᵐ.0.				η Aurigae. 3ᵐ.6.				ε Leporis. 3ᵐ.5.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. —	
	$4^h\ 54^m$		43° 40′		$4^h\ 57^m$		21° 26′		$4^h\ 59^m$		41° 5′		$5^h\ 1^m$		22° 30′	
Jan. 0	54.86	2	38.8	11	13.09	0	53.7	0	37.28	1	64.0	11	18.26	3	22.7	23
10	54.84	7	39.9	10	13.09	6	53.7	1	37.27	7	65.1	9	18.23	9	25.0	19
20	54.77	14	40.9	9	13.03	9	53.6	1	37.20	12	66.0	7	18.14	12	26.9	16
30	54.63	17	41.8	5	12.94	13	53.5	1	37.08	16	66.7	5	18.02	15	28.5	13
Febr. 9	54.46	21	42.3	3	12.81	16	53.4	1	36.92	20	67.2	3	17.87	18	29.8	10
19	54.25	24	42.6	0	12.65	17	53.3	3	36.72	23	67.5	0	17.69	20	30.8	5
März 1	54.01	25	42.6	2	12.48	19	53.0	2	36.49	24	67.5	2	17.49	21	31.3	2
11	53.76	24	42.4	5	12.29	19	52.8	3	36.25	23	67.3	5	17.28	21	31.5	2
21	53.52	23	41.9	8	12.10	17	52.5	4	36.02	22	66.8	7	17.07	19	31.3	5
31	53.29	20	41.1	10	11.93	15	52.1	3	35.80	19	66.1	9	16.88	18	30.8	9
April 10	53.09	15	40.1	12	11.78	12	51.8	4	35.61	15	65.2	10	16.70	15	29.9	13
20	52.94	11	38.9	13	11.66	8	51.4	3	35.46	11	64.2	12	16.55	11	28.6	15
30	52.83	5	37.6	13	11.58	4	51.1	2	35.35	5	63.0	12	16.44	7	27.1	18
Mai 10	52.78	1	36.3	14	11.54	1	50.9	1	35.30	1	61.8	12	16.37	2	25.3	21
20	52.79	7	34.9	13	11.55	6	50.8	1	35.31	6	60.6	12	16.35	2	23.2	23
30	52.86	15	33.6	13	11.61	12	50.7	1	35.37	14	59.4	12	16.37	8	20.9	26
Juni 9	53.01	19	32.3	11	11.73	15	50.8	2	35.51	18	58.2	10	16.45	11	18.3	25
19	53.20	24	31.2	9	11.88	19	51.0	3	35.69	22	57.2	8	16.56	15	15.8	25
29	53.44	28	30.3	7	12.07	23	51.3	4	35.91	27	56.4	6	16.71	19	13.3	24
Juli 9	53.72	32	29.6	6	12.30	25	51.7	5	36.18	31	55.8	4	16.90	22	10.9	23
19	54.04	34	29.0	3	12.55	28	52.2	5	36.49	33	55.4	3	17.12	24	8.6	21
29	54.38	37	28.7	1	12.83	29	52.7	6	36.82	35	55.1	1	17.36	27	6.5	19
Aug. 8	54.75	39	28.6	1	13.12	30	53.3	6	37.17	37	55.0	1	17.63	28	4.6	15
18	55.14	39	28.7	2	13.42	31	53.9	6	37.54	37	55.1	2	17.91	29	3.1	11
28	55.53	39	28.9	4	13.73	31	54.5	5	37.91	38	55.3	4	18.20	29	2.0	6
Sept. 7	55.92	39	29.3	5	14.04	31	55.0	5	38.29	37	55.7	5	18.49	29	1.4	2
17	56.31	38	29.8	7	14.35	30	55.5	4	38.66	37	56.2	6	18.78	29	1.2	3
27	56.69	37	30.5	9	14.65	29	55.9	3	39.03	36	56.8	7	19.07	27	1.5	7
Oct. 7	57.06	35	31.4	9	14.94	28	56.2	2	39.39	34	57.5	8	19.34	26	2.2	12
17	57.41	32	32.3	11	15.22	25	56.4	1	39.73	32	58.3	9	19.60	24	3.4	17
27	57.73	30	33.4	11	15.47	24	56.5	1	40.05	29	59.2	10	19.84	21	5.1	20
Nov. 6	58.03	26	34.5	12	15.71	21	56.6	0	40.34	26	60.2	11	20.05	18	7.1	22
16	58.29	22	35.7	13	15.92	18	56.6	1	40.60	22	61.3	11	20.23	15	9.3	24
26	58.51	18	37.0	13	16.10	14	56.5	0	40.82	17	62.4	12	20.38	12	11.7	25
Dec. 6	58.69	12	38.3	14	16.24	11	56.5	1	40.99	13	63.6	11	20.50	7	14.2	26
16	58.81	7	39.7	13	16.35	6	56.4	0	41.12	7	64.7	12	20.57	3	16.8	24
26	58.88	0	41.0	12	16.41	2	56.4	0	41.19	1	65.9	11	20.60	2	19.2	23
36	58.88		42.2		16.43		56.4		41.20		67.0		20.58		21.5	
Mittl. Ort	51.75		36.9		10.62		55.2		34.26		62.9		16.17		14.9	
	81)				372)				83)				554)			

1901	β Eridani. $3^m.0$. AR.		Decl. −		19 H. Camelop. $5^m.0$. AR.		Decl. +		μ Aurigae. $5^m.6$. AR.		Decl. +		α Aurigae. 1^m. AR.		Decl. +	
	$5^h\ 2^m$		5° 12′		$5^h\ 6^m$		79° 6′		$5^h\ 6^m$		38° 21′		$5^h\ 9^m$		45° 53′	
Jan. 0	61.09	1	56.7	15	23.86	23	67.7	27	42.01	0	62.6	9	25.72	0	51.5	13
10	61.08	6	58.2	13	23.63	47	70.4	25	42.01	6	63.5	8	25.72	7	52.8	12
20	61.02	9	59.5	11	23.16	66	72.9	22	41.95	10	64.3	6	25.65	12	54.0	10
30	60.93	13	60.6	9	22.50	83	75.1	16	41.85	15	64.9	5	25.53	18	55.0	7
Febr. 9	60.80	15	61.5	7	21.67	95	76.7	12	41.70	19	65.4	3	25.35	21	55.7	5
19	60.65	18	62.2	4	20.72	104	77.9	6	41.51	22	65.7	1	25.14	25	56.2	2
März 1	60.47	18	62.6	3	19.68	107	78.5	1	41.29	22	65.8	— 2	24.89	26	56.4	— 2
11	60.29	19	62.9	0	18.61	107	78.6	— 5	41.07	23	65.6	4	24.63	26	56.2	4
21	60.10	17	62.9	2	17.54	100	78.1	11	40.84	21	65.2	6	24.37	24	55.8	7
31	59.93	15	62.7	4	16.54	91	77.0	16	40.63	19	64.6	8	24.13	21	55.1	10
April 10	59.78	12	62.3	7	15.63	76	75.4	20	40.44	15	63.8	9	23.92	18	54.1	11
20	59.66	9	61.6	9	14.87	59	73.4	24	40.29	11	62.9	10	23.74	13	53.0	13
30	59.57	5	60.7	10	14.28	41	71.0	26	40.18	5	61.9	11	23.61	7	51.7	15
Mai 10	59.52	1	59.7	13	13.87	19	68.4	27	40.13	0	60.8	11	23.54	1	50.2	15
20	59.51	— 4	58.4	15	13.68	— 3	65.7	29	40.13	6	59.7	10	23.53	— 6	48.7	14
30	59.55	9	56.9	18	13.71	27	62.8	31	40.19	12	58.7	10	23.59	12	47.3	14
Juni 9	59.64	12	55.1	17	13.98	46	59.7	28	40.31	16	57.7	9	23.71	19	45.9	13
19	59.76	16	53.4	17	14.44	65	56.9	26	40.47	21	56.8	7	23.90	22	44.6	12
29	59.92	19	51.7	17	15.09	82	54.3	23	40.68	26	56.1	5	24.12	28	43.4	9
Juli 9	60.11	22	50.0	16	15.91	97	52.0	20	40.94	29	55.6	4	24.40	31	42.5	8
19	60.33	25	48.4	16	16.88	110	50.0	17	41.23	31	55.2	2	24.71	35	41.7	6
29	60.58	26	46.8	14	17.98	120	48.3	13	41.54	34	55.0	1	25.06	37	41.1	3
Aug. 8	60.84	27	45.4	12	19.18	129	47.0	9	41.88	35	54.9	— 1	25.43	39	40.8	2
18	61.11	28	44.2	9	20.47	134	46.1	5	42.23	36	55.0	2	25.82	40	40.6	0
28	61.39	28	43.3	6	21.81	138	45.6	0	42.59	36	55.2	3	26.22	41	40.6	2
Sept. 7	61.67	28	42.7	3	23.19	138	45.6	3	42.95	36	55.5	4	26.63	41	40.8	4
17	61.95	28	42.4	0	24.57	137	45.9	8	43.31	36	55.9	5	27.04	40	41.2	5
27	62.23	26	42.4	4	25.94	132	46.7	12	43.67	35	56.4	6	27.44	39	41.7	7
Oct. 7	62.49	25	42.8	7	27.26	125	47.9	16	44.02	33	57.0	7	27.83	37	42.4	9
17	62.74	24	43.5	10	28.51	116	49.5	20	44.35	31	57.7	7	28.20	35	43.3	10
27	62.98	21	44.5	12	29.67	103	51.5	23	44.66	29	58.4	8	28.55	32	44.3	11
Nov. 6	63.19	19	45.7	15	30.70	89	53.8	26	44.95	26	59.2	9	28.87	29	45.4	12
16	63.38	16	47.2	16	31.59	70	56.4	28	45.21	22	60.1	9	29.16	25	46.6	13
26	63.54	13	48.8	16	32.29	52	59.2	30	45.43	18	61.0	10	29.41	20	47.9	14
Dec. 6	63.67	9	50.4	17	32.81	31	62.2	30	45.61	13	62.0	10	29.61	15	49.3	14
16	63.76	5	52.1	16	33.12	8	65.2	30	45.74	8	63.0	10	29.76	8	50.7	14
26	63.81	1	53.7	15	33.20	— 17	68.2	29	45.82	3	64.0	9	29.84	3	52.1	13
36	63.82		55.2		33.03		71.1		45.85		64.9		29.87		53.4	
Mittl. Ort	58.93		51.2		13.78		63.8		39.08		62.4		22.47		50.7	
	84)				373)				374)				86)			

1901	β Orionis. 1^m.				γ Orionis. 2^m.0.				β Tauri. 2^m.0.				17 Camelop. 6^m.0.			
	AR.		Decl. −		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$5^h\ 9^m$		8° 18′		$5^h\ 19^m$		6° 15′		$5^h\ 20^m$		28° 31′		$5^h\ 20^m$		62° 58′	
Jan. 0	48.90	1	63.6	16	51.48	2	31.6	9	4.63	2	24.1	3	53.75	2	66.0	22
10	48.89	5	65.2	15	51.50	4	30.7	9	4.65	3	24.4	4	53.73	12	68.2	20
20	48.84	9	66.7	12	51.46	8	29.8	7	4.62	9	24.8	2	53.61	21	70.2	17
30	48.75	13	67.9	10	51.38	11	29.1	6	4.53	12	25.0	2	53.40	28	71.9	14
Febr. 9	48.62	16	68.9	8	51.27	14	28.5	4	4.41	16	25.2	1	53.12	35	73.3	10
19	48.46	17	69.7	5	51.13	17	28.1	4	4.25	19	25.3	0	52.77	39	74.3	6
März 1	48.29	19	70.2	3	50.96	18	27.7	2	4.06	20	25.3	1	52.38	42	74.9	1
11	48.10	19	70.5	0	50.78	18	27.5	2	3.86	20	25.2	3	51.96	42	75.0	3
21	47.91	17	70.5	3	50.60	17	27.3	0	3.66	19	24.9	3	51.54	40	74.7	8
31	47.74	16	70.2	5	50.43	16	27.3	1	3.47	17	24.6	5	51.14	36	73.9	12
April 10	47.58	13	69.7	7	50.27	13	27.4	3	3.30	15	24.1	5	50.78	30	72.7	15
20	47.45	10	69.0	10	50.14	9	27.7	3	3.15	10	23.6	6	50.48	24	71.2	18
30	47.35	6	68.0	12	50.05	6	28.0	5	3.05	6	23.0	6	50.24	15	69.4	21
Mai 10	47.29	1	66.8	14	49.99	1	28.5	7	2.99	1	22.4	5	50.09	7	67.3	21
20	47.28	2	65.4	15	49.98	3	29.2	7	2.98	4	21.9	5	50.02	2	65.2	22
30	47.30	8	63.9	17	50.01	7	29.9	9	3.02	9	21.4	4	50.04	12	63.0	23
Juni 9	47.38	12	62.2	20	50.08	13	30.8	11	3.11	15	21.0	4	50.16	23	60.7	24
19	[9] 47.50	15	60.2	19	[12] 50.21	15	31.9	11	[12] 3.26	18	20.6	2	[12] 50.39	29	58.3	20
29	47.65	19	58.3	19	50.36	19	33.0	11	3.44	22	20.4	0	50.68	36	56.3	19
Juli 9	47.84	21	56.4	18	50.55	22	34.1	12	3.66	25	20.4	0	51.04	43	54.4	16
19	48.05	24	54.6	16	50.77	24	35.3	10	3.91	27	20.4	1	51.47	49	52.8	13
29	48.29	26	53.0	15	51.01	26	36.3	10	4.18	30	20.5	2	51.96	53	51.5	11
Aug. 8	48.55	27	51.5	13	51.27	27	37.3	9	4.48	31	20.7	2	52.49	56	50.4	7
18	48.82	28	50.2	10	51.54	28	38.2	8	4.79	32	20.9	2	53.05	58	49.7	5
28	49.10	28	49.2	6	51.82	28	39.0	5	5.11	32	21.1	3	53.63	60	49.2	1
Sept. 7	49.38	28	48.6	3	52.10	29	39.5	3	5.43	33	21.4	3	54.23	60	49.1	2
17	49.66	27	48.3	1	52.39	28	39.8	1	5.76	33	21.7	3	54.83	60	49.3	5
27	49.93	27	48.4	4	52.67	28	39.9	2	6.09	31	22.0	3	55.43	59	49.8	8
Oct. 7	50.20	26	48.8	8	52.95	27	39.7	4	6.40	31	22.3	2	56.02	56	50.6	11
17	50.46	24	49.6	12	53.22	25	39.3	6	6.71	29	22.5	3	56.58	53	51.7	14
27	50.70	22	50.8	14	53.47	23	38.7	7	7.00	27	22.8	2	57.11	49	53.1	17
Nov. 6	50.92	19	52.2	16	53.70	21	38.0	8	7.27	24	23.0	2	57.60	43	54.8	18
16	51.11	17	53.8	17	53.91	19	37.2	10	7.51	22	23.2	3	58.03	37	56.6	21
26	51.28	13	55.5	19	54.10	15	36.2	11	7.73	18	23.5	3	58.40	29	58.7	22
Dec. 6	51.41	9	57.4	18	54.25	12	35.1	12	7.91	13	23.8	4	58.69	21	60.9	23
16	51.50	5	59.2	18	54.37	7	33.9	10	8.04	9	24.2	3	58.90	12	63.2	24
26	51.55	1	61.0	17	54.44	3	32.9	9	8.13	4	24.5	4	59.02	2	65.6	22
36	51.56		62.7		54.47		32.0		8.17		24.9		59.04		67.8	
Mittl. Ort	46.74		57.5		49.19		36.2		1.97		26.1		49.06		64.8	
	87)				91)				90)				375)			

1901	Gr. 966. 6ᵐ.5. AR.		Decl. +		δ Orion. 2.2...2ᵐ.7. AR.		Decl. —		α Leporis. 3ᵐ.0. AR.		Decl. —		ι Orionis. 3ᵐ.1. AR.		Decl. —	
	5ʰ 26ᵐ		74° 58′		5ʰ 26ᵐ		0° 22′		5ʰ 28ᵐ		17° 53′		5ʰ 30ᵐ		5° 58′	
Jan. 0	36.76	8	43.0	27	59.11	1	26.3	13	23.95	1	42.6	22	37.60	1	35.5	16
10	36.68	25	45.7	24	59.12	3	27.6	12	23.94	5	44.8	19	37.61	4	37.1	14
20	36.43	40	48.1	22	59.09	8	28.8	10	23.89	10	46.7	17	37.57	7	38.5	13
30	36.03	54	50.3	18	59.01	11	29.8	8	23.79	13	48.4	13	37.50	12	39.8	10
Febr. 9	35.49	65	52.1	13	58.90	14	30.6	6	23.66	16	49.7	10	37.38	14	40.8	8
19	34.84	72	53.4	9	58.76	17	31.2	5	23.50	18	50.7	8	37.24	17	41.6	6
März 1	34.12	77	54.3	3	58.59	18	31.7	3	23.32	20	51.5	3	37.07	18	42.2	3
11	33.35	76	54.6	3	58.41	18	32.0	1	23.12	20	51.8	1	36.89	19	42.5	0
21	32.59	74	54.3	8	58.23	18	32.1	1	22.92	20	51.9	4	36.70	18	42.5	1
31	31.85	68	53.5	12	58.05	16	32.0	3	22.72	18	51.5	6	36.52	16	42.4	4
April 10	31.17	59	52.3	17	57.89	13	31.7	4	22.54	15	50.9	9	36.36	14	42.0	6
20	30.58	47	50.6	22	57.76	10	31.3	6	22.39	12	50.0	12	36.22	11	41.4	8
30	30.11	33	48.4	24	57.66	7	30.7	8	22.27	9	48.8	15	36.11	7	40.6	10
Mai 10	29.78	19	46.0	26	57.59	2	29.9	10	22.18	4	47.3	18	36.04	3	39.6	12
20	29.59	3	43.4	27	57.57	2	28.9	11	22.14	0	45.5	19	36.01	1	38.4	14
30	29.56	12	40.7	27	57.59	6	27.8	12	22.14	4	43.6	21	36.02	5	37.0	16
Juni 9	29.68	31	38.0	30	57.65	11	26.6	15	22.18	10	41.5	24	36.07	11	35.4	18
19	29.99	43	35.0	25	57.76	15	25.1	14	22.28	13	39.1	23	36.18	13	33.6	17
29	30.42	56	32.5	24	57.91	17	23.7	15	22.41	17	36.8	23	36.31	17	31.9	17
Juli 9	30.98	68	30.1	21	58.08	21	22.2	14	22.58	20	34.5	21	36.48	20	30.2	16
19	31.66	78	28.0	18	58.29	23	20.8	13	22.78	22	32.4	20	36.68	22	28.6	16
29	32.44	86	26.2	14	58.52	25	19.5	12	23.00	25	30.4	18	36.90	25	27.0	14
Aug. 8	33.30	93	24.8	11	58.77	26	18.3	11	23.25	26	28.6	15	37.15	26	25.6	12
18	34.23	97	23.7	8	59.03	28	17.2	8	23.51	28	27.1	11	37.41	27	24.4	9
28	35.20	101	22.9	3	59.31	28	16.4	6	23.79	28	26.0	8	37.68	28	23.5	7
Sept. 7	36.21	103	22.6	0	59.59	28	15.8	3	24.07	29	25.2	3	37.96	28	22.8	3
17	37.24	103	22.6	5	59.87	28	15.5	0	24.36	28	24.9	1	38.24	28	22.5	1
27	38.27	100	23.1	8	60.15	28	15.5	3	24.64	28	25.0	6	38.52	27	22.6	4
Oct. 7	39.27	96	23.9	12	60.43	26	15.8	6	24.92	27	25.6	11	38.79	27	23.0	7
17	40.23	90	25.1	16	60.69	25	16.4	9	25.19	25	26.7	14	39.06	25	23.7	11
27	41.13	83	26.7	20	60.94	24	17.3	10	25.44	24	28.1	18	39.31	24	24.8	13
Nov. 6	41.96	72	28.7	22	61.18	21	18.3	13	25.68	21	29.9	20	39.55	22	26.1	16
16	42.68	61	30.9	25	61.39	19	19.6	14	25.89	18	31.9	22	39.77	18	27.7	16
26	43.29	48	33.4	28	61.58	15	21.0	14	26.07	14	34.1	24	39.95	15	29.3	18
Dec. 6	43.77	32	36.2	28	61.73	12	22.4	15	26.21	10	36.5	24	40.10	12	31.1	18
16	44.09	17	39.0	28	61.85	7	23.9	14	26.31	6	38.9	24	40.22	7	32.9	17
26	44.26	1	41.8	28	61.92	3	25.3	14	26.37	2	41.3	22	40.29	3	34.6	17
36	44.25		44.6		61.95		26.7		26.39		43.5		40.32		36.3	
Mittl. Ort	29.11		41.6		56.86		20.7		21.78		35.3		35.39		29.2	
	92)				93)				556)				96)			

1901	ε Orionis. $2^m.0$ AR.		ε Orionis. Decl. —		ζ Tauri. $3^m.3$ AR.		ζ Tauri. Decl. +	
	$5^h\ 31^m$		$1°\ 15'$		$5^h\ 31^m$		$21°\ 4'$	
Jan. 0	13.56	2	59.8	14	46.17	3	52.5	1
10	13.58	4	61.2	12	46.20	3	52.4	1
20	13.54	7	62.4	10	46.17	6	52.3	0
30	13.47	11	63.4	9	46.11	11	52.3	1
Febr. 9	13.36	14	64.3	7	46.00	15	52.2	0
19	13.22	17	65.0	5	45.85	17	52.2	1
März 1	13.05	17	65.5	3	45.68	19	52.1	1
11	12.88	19	65.8	1	45.49	19	52.0	2
21	12.69	18	65.9	1	45.30	18	51.8	2
31	12.51	16	65.8	3	45.12	17	51.6	3
April 10	12.35	13	65.5	5	44.95	14	51.3	2
20	12.22	11	65.0	6	44.81	10	51.1	2
30	12.11	7	64.4	8	44.71	7	50.9	2
Mai 10	12.04	2	63.6	10	44.64	2	50.7	1
20	12.02	1	62.6	12	44.62	3	50.6	1
30	12.03	6	61.4	12	44.65	7	50.5	0
Juni 9	12.09	11	60.2	16	44.72	13	50.5	1
19	[14] 12.20	13	58.6	14	[14] 44.85	16	50.6	2
29	12.33	18	57.2	15	45.01	19	50.8	3
Juli 9	12.51	20	55.7	14	45.20	23	51.1	3
19	12.71	22	54.3	14	45.43	25	51.4	4
29	12.93	25	52.9	12	45.68	27	51.8	4
Aug. 8	13.18	26	51.7	11	45.95	29	52.2	4
18	13.44	28	50.6	8	46.24	30	52.6	3
28	13.72	28	49.8	6	46.54	30	52.9	3
Sept. 7	14.00	28	49.2	3	46.84	31	53.2	2
17	14.28	28	48.9	0	47.15	30	53.4	1
27	14.56	27	48.9	3	47.45	30	53.5	1
Oct. 7	14.83	27	49.2	6	47.75	30	53.6	1
17	15.10	26	49.8	9	48.05	28	53.5	1
27	15.36	23	50.7	12	48.33	26	53.4	1
Nov. 6	15.59	22	51.9	13	48.59	24	53.3	2
16	15.81	19	53.2	14	48.83	22	53.1	2
26	16.00	15	54.6	16	49.05	18	52.9	2
Dec. 6	16.15	12	56.2	15	49.23	14	52.7	2
16	16.27	8	57.7	15	49.37	9	52.5	1
26	16.35	4	59.2	14	49.46	5	52.4	1
36	16.39		60.6		49.51		52.3	
Mittl. Ort	11.32		54.0		43.65		56.0	
	97)				98)			

1901	o Aurigae. $5^m.8$ AR.		o Aurigae. Decl. +		ζ Leporis. $3^m.6$ AR.		ζ Leporis. Decl. —	
	$5^h\ 38^m$		$49°\ 46'$		$5^h\ 42^m$		$14°\ 51'$	
Jan. 0	17.28	3	56.9	16	30.35	1	38.7	20
10	17.31	4	58.5	14	30.36	3	40.7	19
20	17.27	11	59.9	13	30.33	8	42.6	16
30	17.16	17	61.2	11	30.25	12	44.2	14
Febr. 9	16.99	21	62.3	9	30.13	15	45.6	11
19	16.78	25	63.2	5	29.98	17	46.7	7
März 1	16.53	28	63.7	2	29.81	19	47.4	4
11	16.25	29	63.9	1	29.62	20	47.8	1
21	15.96	27	63.8	5	29.42	19	47.9	1
31	15.69	26	63.3	8	29.23	18	47.8	5
April 10	15.43	22	62.5	10	29.05	16	47.3	8
20	15.21	17	61.5	13	28.89	12	46.5	11
30	15.04	11	60.2	14	28.77	9	45.4	13
Mai 10	14.93	5	58.8	16	28.68	5	44.1	16
20	14.88	1	57.2	16	28.63	1	42.5	17
30	14.89	7	55.6	16	28.62	3	40.8	19
Juni 9	14.96	16	54.0	17	28.65	9	38.9	23
19	[16] 15.12	21	52.3	15	[17] 28.74	12	36.6	21
29	15.33	26	50.8	13	28.86	15	34.5	21
Juli 9	15.59	30	49.5	12	29.01	19	32.4	20
19	15.89	34	48.3	10	29.20	21	30.4	19
29	16.23	37	47.3	8	29.41	24	28.5	17
Aug. 8	16.60	40	46.5	6	29.65	26	26.8	14
18	17.00	41	45.9	4	29.91	26	25.4	11
28	17.41	43	45.5	2	30.17	28	24.3	8
Sept. 7	17.84	44	45.3	0	30.45	29	23.5	3
17	18.28	43	45.3	2	30.74	28	23.2	1
27	18.71	43	45.5	4	31.02	28	23.3	5
Oct. 7	19.14	42	45.9	6	31.30	27	23.8	9
17	19.56	40	46.5	8	31.57	26	24.7	13
27	19.96	38	47.3	10	31.83	25	26.0	17
Nov. 6	20.34	34	48.3	12	32.08	22	27.7	19
16	20.68	30	49.5	13	32.30	19	29.6	21
26	20.98	25	50.8	14	32.49	15	31.7	23
Dec. 6	21.23	19	52.2	16	32.64	12	34.0	23
16	21.42	14	53.8	16	32.76	8	36.3	22
26	21.56	6	55.4	15	32.84	2	38.5	21
36	21.62		56.9		32.86		40.6	
Mittl. Ort	13.77		58.4		28.16		31.5	
	377)				558)			

1901	ϰ Orionis. 2^m.6. AR.		Decl. —		α Orionis. 1...1^m.4. AR.		Decl. +		δ Aurigae. 4^m.1. AR.		Decl. +		β Aurigae. 2^m.0. AR.		Decl. +	
	5h 43m		9° 42′		5h 49m		7° 23′		5h 51m		54° 16′		5h 52m		44° 56′	
Jan. 0	5.81	2	23.7	18	51.03	3	14.0	9	26.30	5	35.8	19	19.25	5	11.7	13
10	5.83	— 3	25.5	17	51.06	— 1	13.1	8	26.35	— 4	37.7	17	19.30	— 2	13.0	13
20	5.80	7	27.2	14	51.05	5	12.3	7	26.31	11	39.4	15	19.28	8	14.3	12
30	5.73	11	28.6	12	51.00	9	11.6	6	26.20	17	40.9	14	19.20	13	15.5	10
Febr. 9	5.62	15	29.8	9	50.91	13	11.0	4	26.03	23	42.3	11	19.07	18	16.5	8
19	5.47	16	30.7	7	50.78	16	10.6	4	25.80	28	43.4	7	18.89	22	17.3	5
März 1	5.31	19	31.4	4	50.62	18	10.2	2	25.52	30	44.1	4	18.67	25	17.8	3
11	5.12	19	31.8	1	50.44	18	10.0	1	25.22	32	44.5	0	18.42	25	18.1	0
21	4.93	18	31.9	— 1	50.26	18	9.9	1	24.90	32	44.5	4	18.17	26	18.1	3
31	4.75	18	31.8	4	50.08	16	9.8	— 1	24.58	29	44.1	7	17.91	24	17.8	6
April 10	4.57	15	31.4	7	49.92	15	9.9	2	24.29	25	43.4	11	17.67	20	17.2	8
20	4.42	12	30.7	9	49.77	11	10.1	3	24.04	21	42.3	13	17.47	16	16.4	10
30	4.30	8	29.8	11	49.66	8	10.4	4	23.83	15	41.0	15	17.31	12	15.4	12
Mai 10	4.22	4	28.7	14	49.58	3	10.8	6	23.68	8	39.5	17	17.19	6	14.2	13
20	4.18	1	27.3	15	49.55	0	11.4	6	23.60	2	37.8	18	17.13	0	12.9	13
30	4.17	— 4	25.8	16	49.55	5	12.0	8	23.58	— 6	36.0	19	17.13	6	11.6	14
Juni 9	4.21	9	24.2	20	49.60	9	12.8	8	23.64	13	34.1	18	17.19	12	10.2	14
19	[17] 4.30	12	22.2	19	49.69	14	13.6	10	23.77	22	32.3	19	17.31	18	8.8	13
29	4.42	16	20.3	18	[19] 49.83	16	14.6	10	[19] 23.99	25	30.4	17	[19] 17.49	22	7.5	12
Juli 9	4.58	19	18.5	18	49.99	19	15.6	10	24.24	31	28.7	15	17.71	27	6.3	10
19	4.77	21	16.7	17	50.18	22	16.6	9	24.55	36	27.2	13	17.98	30	5.3	9
29	4.98	24	15.0	16	50.40	24	17.5	9	24.91	39	25.9	11	18.28	33	4.4	8
Aug. 8	5.22	25	13.4	13	50.64	26	18.4	7	25.30	43	24.8	9	18.61	36	3.6	6
18	5.47	27	12.1	10	50.90	27	19.1	6	25.73	45	23.9	6	18.97	37	3.0	4
28	5.74	27	11.1	7	51.17	28	19.7	4	26.18	46	23.3	5	19.34	39	2.6	3
Sept. 7	6.01	29	10.4	3	51.45	29	20.1	2	26.64	48	22.8	2	19.73	40	2.3	1
17	6.30	28	10.1	— 1	51.74	29	20.3	0	27.12	48	22.6	0	20.13	40	2.2	0
27	6.58	28	10.2	4	52.03	28	20.3	2	27.60	47	22.6	3	20.53	40	2.2	2
Oct. 7	6.86	27	10.6	9	52.31	28	20.1	5	28.07	47	22.9	5	20.93	39	2.4	3
17	7.13	26	11.5	12	52.59	27	19.6	7	28.54	45	23.4	8	21.32	38	2.7	5
27	7.39	24	12.7	14	52.86	26	18.9	8	28.99	42	24.2	10	21.70	35	3.2	7
Nov. 6	7.63	22	14.1	17	53.12	24	18.1	10	29.41	39	25.2	12	22.05	33	3.9	8
16	7.85	20	15.8	19	53.36	21	17.1	10	29.80	35	26.4	14	22.38	30	4.7	9
26	8.05	16	17.7	20	53.57	18	16.1	11	30.15	29	27.8	16	22.68	25	5.6	11
Dec. 6	8.21	12	19.7	20	53.75	14	15.0	11	30.44	23	29.4	18	22.93	20	6.7	12
16	8.33	9	21.7	20	53.89	10	13.9	10	30.67	16	31.2	18	23.13	14	7.9	13
26	8.42	3	23.7	19	53.99	7	12.9	9	30.83	8	33.0	19	23.27	8	9.2	13
36	8.45		25.6		54.06		12.0		30.91		34.9		23.35		10.5	
Mittl. Ort	3.59		16.9		48.68		19.7		22.48		38.3		15.99		14.9	
	100)				102)				379)				103)			

1901	ϑ Aurigae. 3ᵐ.0. AR.		Decl. +		ν Orionis. 4ᵐ.6. AR.		Decl. +		22 H. Camelop. 4ᵐ.6. AR.		Decl. +		η Gemin. 3.2...4ᵐ.2. AR.		Decl. +	
	$5^h\ 52^m$		$37°\ 12'$		$6^h\ 1^m$		$14°\ 46'$		$6^h\ 7^m$		$69°\ 20'$		$6^h\ 8^m$		$22°\ 31'$	
Jan. 0	61.18		17.3		57.60		44.0		62.07		74.3		56.69		62.9	
10	61.24	6	18.2	9	57.65	5	43.5	5	62.14	7	76.9	26	56.76	7	62.8	1
20	61.23	1	19.0	8	57.65	0	43.0	5	62.08	6	79.3	24	56.77	1	62.8	0
30	61.17	6	19.8	8	57.61	4	42.7	3	61.89	19	81.6	23	56.73	4	62.9	1
Febr. 9	61.05	12	20.5	7	57.52	9	42.4	3	61.59	30	83.6	20	56.65	8	63.0	1
19	60.89	16	21.0	5	57.40	12	42.2	2	61.19	40	85.2	16	56.52	13	63.1	1
März 1	60.70	19	21.4	4	57.24	16	42.1	1	60.73	46	86.5	13	56.36	16	63.2	1
11	60.48	22	21.6	2	57.07	17	42.0	1	60.21	52	87.2	7	56.18	18	63.3	1
21	60.26	22	21.5	1	56.88	19	41.9	1	59.65	56	87.5	3	55.99	19	63.3	0
31	60.04	22	21.3	2	56.70	18	41.9	0	59.10	55	87.2	3	55.80	19	63.2	1
April 10	59.83	21	20.9	4	56.53	17	41.8	1	58.58	52	86.5	7	55.62	18	63.1	1
20	59.65	18	20.2	7	56.38	15	41.8	0	58.10	48	85.3	12	55.46	16	63.0	1
30	59.51	14	19.5	7	56.26	12	41.9	1	57.69	41	83.7	16	55.33	13	62.8	2
Mai 10	59.41	10	18.6	9	56.17	9	42.0	1	57.37	32	81.8	19	55.23	10	62.5	3
20	59.36	5	17.7	9	56.13	4	42.2	2	57.16	21	79.6	22	55.18	5	62.3	2
30	59.37	1	16.8	9	56.13	0	42.5	3	57.05	11	77.2	24	55.17	1	62.2	1
Juni 9	59.42	5	15.8	10	56.17	4	42.8	3	57.06	1	74.7	25	55.21	4	62.1	1
19	59.53	11	14.9	9	56.25	8	43.1	3	57.17	11	72.2	25	55.29	8	62.0	1
29	[19] 59.70	17	14.0	9	[illegible] 56.39	14	43.6	5	[23] 57.42	25	69.5	27	[23] 55.43	14	62.0	0
Juli 9	59.90	20	13.3	7	56.56	17	44.1	5	57.76	34	67.0	25	55.59	16	62.0	0
19	60.14	24	12.6	7	56.75	19	44.7	6	58.19	43	64.8	22	55.78	19	62.0	0
29	60.42	28	12.1	5	56.97	22	45.2	5	58.70	51	62.7	21	56.01	23	62.1	1
Aug. 8	60.71	29	11.7	4	57.21	24	45.7	5	59.28	58	60.9	18	56.26	25	62.2	1
18	61.03	32	11.3	4	57.48	27	46.1	4	59.92	64	59.4	15	56.52	26	62.3	1
28	61.37	34	11.1	2	57.75	27	46.5	4	60.61	69	58.1	13	56.81	29	62.4	1
Sept. 7	61.72	35	10.9	2	58.04	29	46.7	2	61.34	73	57.2	9	57.11	30	62.4	0
17	62.08	36	10.8	1	58.33	29	46.7	0	62.09	75	56.6	6	57.41	30	62.4	0
27	62.44	36	10.8	0	58.63	30	46.7	0	62.85	76	56.4	2	57.72	31	62.2	2
Oct. 7	62.79	35	10.9	1	58.92	29	46.5	2	63.62	77	56.6	2	58.04	32	62.0	2
17	63.15	36	11.1	2	59.22	30	46.1	4	64.38	76	57.1	5	58.35	31	61.8	2
27	63.49	34	11.4	3	59.50	28	45.6	5	65.11	73	58.0	9	58.65	30	61.5	3
Nov. 6	63.81	32	11.7	3	59.77	27	45.1	5	65.80	69	59.2	12	58.94	29	61.1	4
16	64.11	30	12.1	4	60.02	25	44.5	6	66.43	63	60.8	16	59.21	27	60.8	3
26	64.38	27	12.7	6	60.25	23	43.7	8	67.00	57	62.7	19	59.46	25	60.4	4
Dec. 6	64.61	23	13.4	7	60.45	20	43.0	7	67.47	47	64.9	22	59.67	21	60.1	3
16	64.79	18	14.1	7	60.61	16	42.3	7	67.84	37	67.3	24	59.85	18	59.9	2
26	64.92	13	14.9	8	60.73	12	41.7	6	68.10	26	69.8	25	59.99	14	59.8	1
36	65.01	9	15.7	8	60.80	7	41.1	6	68.23	13	72.3	25	60.08	9	59.7	1
Mittl. Ort	58.24		21.0		55.16		49.7		56.23		77.8		54.11		68.6	
	104)				382)				383)				105)			

1901	μ Geminorum. 3ᵐ.0. AR.		Decl. +		ψ¹ Aurigae. 5ᵐ.1. AR.		Decl. +		β Canis maj. 2ᵐ.6. AR.		Decl. −		8 Monocerot. 4ᵐ.7. AR.		Decl. +	
	6ʰ 16ᵐ		22° 33′		6ʰ 17ᵐ		49° 20′		6ʰ 18ᵐ		17° 54′		6ʰ 18ᵐ		4° 38′	
Jan. 0	60.86	7	46.5	0	19.96	9	13.6	16	22.62	4	31.6	23	33.70	6	28.6	12
10	60.93	2	46.5	0	20.05	1	15.2	15	22.66	1	33.9	22	33.76	2	27.4	10
20	60.95	3	46.5	1	20.06	6	16.7	15	22.65	5	36.1	20	33.78	4	26.4	9
30	60.92	7	46.6	1	20.00	12	18.2	13	22.60	10	38.1	16	33.74	7	25.5	7
Febr. 9	60.85	12	46.7	1	19.88	18	19.5	11	22.50	13	39.7	14	33.67	12	24.8	5
19	60.73	16	46.8	1	19.70	23	20.6	9	22.37	17	41.1	10	33.55	14	24.3	4
März 1	60.57	18	46.9	1	19.47	26	21.5	6	22.20	19	42.1	7	33.41	17	23.9	3
11	60.39	19	47.0	0	19.21	28	22.1	2	22.01	20	42.8	3	33.24	18	23.6	2
21	60.20	19	47.0	0	18.93	28	22.3	1	21.81	20	43.1	0	33.06	18	23.4	0
31	60.01	18	47.0	1	18.65	27	22.2	4	21.61	19	43.1	3	32.88	17	23.4	1
April 10	59.83	16	46.9	1	18.38	24	21.8	7	21.42	17	42.8	7	32.71	16	23.5	3
20	59.67	14	46.8	2	18.14	20	21.1	9	21.25	15	42.1	10	32.55	13	23.8	4
30	59.53	10	46.6	2	17.94	15	20.2	12	21.10	12	41.1	12	32.42	9	24.2	5
Mai 10	59.43	6	46.4	2	17.79	10	19.0	14	20.98	8	39.9	15	32.33	6	24.7	6
20	59.37	1	46.2	1	17.69	4	17.6	15	20.90	4	38.4	17	32.27	2	25.3	7
30	59.36	3	46.1	2	17.65	2	16.1	16	20.86	1	36.7	19	32.25	2	26.0	9
Juni 9	59.39	7	45.9	1	17.67	8	14.5	16	20.85	4	34.8	21	32.27	6	26.9	9
19	59.46	13	45.8	0	17.75	16	12.9	17	20.89	9	32.7	23	32.33	11	27.8	11
29	59.59	15	45.8	0	17.91	20	11.2	15	20.98	13	30.4	22	32.44	13	28.9	10
Juli 9	59.74	19	45.8	0	18.11	25	9.7	14	21.11	15	28.2	21	32.57	17	29.9	10
19	59.93	22	45.8	0	18.36	30	8.3	13	21.26	19	26.1	20	32.74	19	30.9	10
29	60.15	24	45.8	1	18.66	33	7.0	12	21.45	21	24.1	18	32.93	22	31.9	9
Aug. 8	60.39	26	45.9	0	18.99	36	5.8	10	21.66	23	22.3	16	33.15	24	32.8	7
18	60.65	28	45.9	0	19.35	39	4.8	9	21.89	25	20.7	12	33.39	25	33.5	6
28	60.93	29	45.9	0	19.74	41	3.9	6	22.14	27	19.5	9	33.64	27	34.1	4
Sept. 7	61.22	31	45.9	1	20.15	42	3.3	5	22.41	28	18.6	4	33.91	28	34.5	1
17	61.53	31	45.8	2	20.57	43	2.8	3	22.69	29	18.2	0	34.19	29	34.6	1
27	61.84	32	45.6	3	21.00	44	2.5	1	22.98	29	18.2	4	34.48	28	34.5	3
Oct. 7	62.16	31	45.3	3	21.44	43	2.4	1	23.27	28	18.6	9	34.76	29	34.2	5
17	62.47	30	45.0	4	21.87	42	2.5	3	23.55	28	19.5	13	35.05	28	33.7	9
27	62.77	30	44.6	4	22.29	40	2.8	5	23.83	27	20.8	17	35.33	27	32.8	11
Nov. 6	63.07	28	44.2	4	22.69	38	3.3	7	24.10	25	22.5	20	35.60	25	31.7	12
16	63.35	25	43.8	4	23.07	35	4.0	10	24.35	22	24.5	23	35.85	24	30.5	12
26	63.60	22	43.4	3	23.42	30	5.0	12	24.57	19	26.8	24	36.09	20	29.3	14
Dec. 6	63.82	19	43.1	2	23.72	25	6.2	13	24.76	16	29.2	25	36.29	17	27.9	13
16	64.01	15	42.9	2	23.97	19	7.5	15	24.92	11	31.7	25	36.46	13	26.6	13
26	64.16	9	42.7	1	24.16	11	9.0	15	25.03	6	34.2	24	36.59	8	25.3	12
36	64.25		42.6		24.27		10.5		25.09		36.6		36.67		24.1	
Mittl. Ort	58.28		52.7		16.48		18.8		20.37		24.2		31.36		35.5	
	106)				385)				561)				386)			

1901	10 Monocerot. 5m.0. AR.		Decl. —		8 Lyncis. 6m.0. AR.		Decl. +		23 H.Camelop. 5m.3. AR.		Decl. +		ξ² Canis maj. 5m.1. AR.		Decl. —	
	6h 23m		4° 42′		6h 28m		61° 33′		6h 29m		79° 39′		6h 30m		22° 53′	
Jan. 0	6.52	5	10.6	18	43.06	12	60.6	22	31.22	15	72.4	29	56.72	5	17.8	26
10	6.57	2	12.4	15	43.18	1	62.8	22	31.37	— 9	75.3	29	56.77	0	20.4	25
20	6.59	— 4	13.9	14	43.19	— 8	65.0	20	31.28	34	78.2	27	56.77	5	22.9	22
30	6.55	7	15.3	11	43.11	17	67.0	19	30.94	56	80.9	24	56.72	10	25.1	19
Febr. 9	6.48	12	16.4	9	42.94	25	68.9	16	30.38	76	83.3	21	56.62	14	27.0	15
19	6.36	15	17.3	7	42.69	32	70.5	13	29.62	93	85.4	17	56.48	17	28.5	12
März 1	6.21	17	18.0	5	42.37	37	71.8	9	28.69	104	87.1	11	56.31	19	29.7	9
11	6.04	18	18.5	2	42.00	39	72.7	4	27.65	112	88.2	5	56.12	21	30.6	5
21	5.86	19	18.7	0	41.61	40	73.1	0	26.53	114	88.7	0	55.91	21	31.1	1
31	5.67	17	18.7	2	41.21	39	73.1	3	25.39	111	88.7	5	55.70	20	31.2	— 3
April 10	5.50	16	18.5	4	40.82	35	72.8	8	24.28	103	88.2	11	55.50	19	30.9	6
20	5.34	14	18.1	6	40.47	31	72.0	12	23.25	92	87.1	16	55.31	16	30.3	10
30	5.20	10	17.5	8	40.16	25	70.8	16	22.33	76	85.5	20	55.15	13	29.3	13
Mai 10	5.10	7	16.7	10	39.91	18	69.2	18	21.57	59	83.5	24	55.02	10	28.0	16
20	5.03	3	15.7	12	39.73	10	67.4	20	20.98	40	81.1	26	54.92	6	26.4	18
30	5.00	— 2	14.5	13	39.63	1	65.4	21	20.58	18	78.5	28	54.86	2	24.6	20
Juni 9	5.02	4	13.2	14	39.62	— 6	63.3	22	20.40	— 3	75.7	29	54.84	— 2	22.6	22
19	5.06	9	11.8	16	39.68	17	61.1	24	20.43	28	72.8	33	54.86	6	20.4	24
29	27 5.15	13	10.2	15	28 39.85	22	58.7	22	28 20.71	46	69.5	29	29 54.92	12	18.0	25
Juli 9	5.28	15	8.7	15	40.07	30	56.5	21	21.17	66	66.6	29	55.04	14	15.5	23
19	5.43	19	7.2	14	40.37	36	54.4	20	21.83	83	63.7	26	55.18	17	13.2	22
29	5.62	21	5.8	13	40.73	42	52.4	17	22.66	98	61.1	23	55.35	20	11.0	20
Aug. 8	5.83	23	4.5	11	41.15	46	50.7	16	23.64	113	58.8	21	55.55	23	9.0	17
18	6.06	25	3.4	9	41.61	50	49.1	13	24.77	124	56.7	17	55.78	25	7.3	15
28	6.31	26	2.5	6	42.11	53	47.8	11	26.01	134	55.0	14	56.03	27	5.8	10
Sept. 7	6.57	27	1.9	3	42.64	56	46.7	8	27.35	141	53.6	10	56.30	28	4.8	5
17	6.84	28	1.6	— 1	43.20	58	45.9	6	28.76	145	52.6	6	56.58	29	4.3	1
27	7.12	29	1.7	4	43.78	58	45.3	2	30.21	147	52.0	1	56.87	29	4.2	— 4
Oct. 7	7.41	28	2.1	7	44.36	57	45.1	— 1	31.68	146	51.9	— 3	57.16	30	4.6	8
17	7.69	28	2.8	11	44.93	57	45.2	4	33.14	143	52.2	7	57.46	29	5.4	14
27	7.97	27	3.9	13	45.50	55	45.6	7	34.57	135	52.9	12	57.75	28	6.8	18
Nov. 6	8.24	25	5.2	15	46.05	51	46.3	11	35.92	124	54.1	16	58.03	26	8.6	21
16	8.49	23	6.7	17	46.56	46	47.4	13	37.16	111	55.7	20	58.29	23	10.7	24
26	8.72	20	8.4	19	47.02	41	48.7	16	38.27	95	57.7	23	58.52	20	13.1	26
Dec. 6	8.92	17	10.3	19	47.43	33	50.3	19	39.22	75	60.0	26	58.72	17	15.7	28
16	9.09	12	12.2	18	47.76	25	52.2	20	39.97	52	62.6	28	58.89	12	18.5	28
26	9.21	8	14.0	17	48.01	16	54.2	22	40.49	28	65.4	29	59.01	8	21.3	26
36	9.29		15.7		48.17		56.4		40.77		68.3		59.09		23.9	
Mittl. Ort	4.24		3.4		38.58		66.5		20.67		77.9		54.45		10.4	
	562)				388)				387)				563)			

1901	51 Aurigae. 6m.4. AR.		Decl. +		γ Geminorum. 2m.3. AR.		Decl. +		S Monoc. 5.0...5m.5. AR.		Decl. +		ε Geminorum. 3m.3. AR.		Decl. +	
	6h 31m		39° 28′		6h 31m		16° 28′		6h 35m		9° 59′		6h 37m		25° 13′	
Jan. 0	50.95	10	35.0	10	62.05	8	55.0	5	33.96	9	7.3	9	53.08	10	38.2	1
10	51.05	3	36.0	10	62.13	4	54.5	4	34.05	3	6.4	7	53.18	4	38.3	2
20	51.08	2	37.0	10	62.17	2	54.1	2	34.08	2	5.7	7	53.22	1	38.5	2
30	51.06	8	38.0	9	62.15	6	53.9	2	34.06	6	5.0	5	53.21	6	38.7	3
Febr. 9	50.98	14	38.9	9	62.09	11	53.7	1	34.00	10	4.5	3	53.15	11	39.0	3
19	50.84	17	39.8	7	61.98	14	53.6	0	33.90	13	4.2	2	53.04	15	39.3	3
März 1	50.67	21	40.5	5	61.84	16	53.6	0	33.77	16	4.0	2	52.89	17	39.6	2
11	50.46	23	41.0	3	61.68	18	53.6	0	33.61	18	3.8	0	52.72	19	39.8	1
21	50.23	24	41.3	0	61.50	19	53.6	0	33.43	18	3.8	0	52.53	20	39.9	1
31	49.99	22	41.3	1	61.31	18	53.6	0	33.25	18	3.8	0	52.33	19	40.0	0
April 10	49.77	20	41.2	4	61.13	16	53.6	1	33.07	16	3.8	2	52.14	17	40.0	1
20	49.57	18	40.8	6	60.97	14	53.7	0	32.91	14	4.0	2	51.97	15	39.9	2
30	49.39	13	40.2	7	60.83	10	53.7	1	32.77	10	4.2	3	51.82	11	39.7	2
Mai 10	49.26	10	39.5	9	60.73	7	53.8	1	32.67	7	4.5	4	51.71	8	39.5	3
20	49.16	4	38.6	10	60.66	3	53.9	1	32.60	3	4.9	5	51.63	3	39.2	2
30	49.12	2	37.6	11	60.63	2	54.0	2	32.57	1	5.4	5	51.60	1	39.0	3
Juni 9	49.14	6	36.5	11	60.65	5	54.2	3	32.58	4	5.9	6	51.61	5	38.7	3
19	49.20	11	35.4	11	60.70	9	54.5	3	32.62	9	6.5	6	51.66	9	38.4	3
29	49.31	18	34.3	11	60.79	15	54.8	3	32.71	13	7.1	7	51.75	15	38.1	2
Juli 9	[29] 49.49	20	33.2	10	[29] 60.94	17	55.1	3	[30] 32.84	16	7.8	7	[30] 51.90	18	37.9	2
19	49.69	24	32.2	9	61.11	20	55.4	3	33.00	19	8.5	7	52.08	20	37.7	2
29	49.93	27	31.3	9	61.31	22	55.7	2	33.19	21	9.2	5	52.28	23	37.5	2
Aug. 8	50.20	30	30.4	7	61.53	24	55.9	2	33.40	23	9.7	5	52.51	25	37.3	2
18	50.50	33	29.7	7	61.77	26	56.1	2	33.63	25	10.2	3	52.76	28	37.1	3
28	50.83	34	29.0	6	62.03	27	56.3	0	33.88	27	10.5	2	53.04	29	36.8	2
Sept. 7	51.17	35	28.4	6	62.30	29	56.3	1	34.15	28	10.7	0	53.33	30	36.6	3
17	51.52	37	27.8	5	62.59	30	56.2	3	34.43	28	10.7	2	53.63	31	36.3	4
27	51.89	37	27.3	3	62.89	30	55.9	3	34.71	30	10.5	4	53.94	32	35.9	4
Oct. 7	52.26	37	27.0	1	63.19	31	55.6	5	35.01	29	10.1	6	54.26	32	35.5	4
17	52.63	37	26.9	1	63.50	29	55.1	6	35.30	29	9.5	7	54.58	33	35.1	5
27	53.00	36	26.8	0	63.79	29	54.5	7	35.59	29	8.8	9	54.91	31	34.6	5
Nov. 6	53.36	34	26.8	2	64.08	28	53.8	8	35.88	27	7.9	11	55.22	29	34.1	4
16	53.70	31	27.0	4	64.36	26	53.0	8	36.15	25	6.8	11	55.51	28	33.7	4
26	54.01	28	27.4	5	64.62	23	52.2	7	36.40	22	5.7	11	55.79	25	33.3	3
Dec. 6	54.29	23	27.9	7	64.85	19	51.5	7	36.62	19	4.6	11	56.04	21	33.0	1
16	54.52	19	28.6	8	65.04	15	50.8	6	36.81	15	3.5	10	56.25	17	32.9	1
26	54.71	13	29.4	9	65.19	11	50.2	5	36.96	11	2.5	9	56.42	12	32.8	0
36	54.84		30.3		65.30		49.7		37.07		1.6		56.54		32.8	
Mittl. Ort	47.94		41.8		59.58		62.1		31.57		14.7		50.46		45.6	
	389)				107)				108)				109)			

1901	ζ Geminorum. $3^m.6$. AR.		Decl. +		α Canis maj.*) 1^m. AR.		Decl. −		18 Monocerot. $5^m.0$. AR.		Decl. +		ϑ Geminorum. $3^m.3$. AR.		Decl. +	
	$6^h\ 39^m$		12° 59′		$6^h\ 40^m$		16° 34′		$6^h\ 42^m$		2° 30′		$6^h\ 46^m$		34° 4′	
Jan. 0	46.40	9	61.1	8	49.40	7	55.7	24	44.25	9	66.2	13	18.73	11	43.4	6
10	46.49	4	60.3	6	49.47	1	58.1	23	44.34	3	64.9	12	18.84	5	44.0	7
20	46.53	1	59.7	4	49.48	4	60.4	20	44.37	1	63.7	11	18.89	0	44.7	7
30	46.52	6	59.3	4	49.44	8	62.4	17	44.36	6	62.6	9	18.89	6	45.4	8
Febr. 9	46.46	10	58.9	2	49.36	13	64.1	14	44.30	10	61.7	6	18.83	11	46.2	7
19	46.36	13	58.7	1	49.23	15	65.5	11	44.20	13	61.1	5	18.72	16	46.9	6
März 1	46.23	16	58.6	1	49.08	18	66.6	8	44.07	16	60.6	4	18.56	18	47.5	5
11	46.07	18	58.5	0	48.90	20	67.4	5	43.91	17	60.2	2	18.38	21	48.0	3
21	45.89	18	58.5	0	48.70	20	67.9	1	43.74	18	60.0	0	18.17	21	48.3	2
31	45.71	18	58.5	1	48.50	19	68.0	2	43.56	18	60.0	2	17.96	21	48.5	0
April 10	45.53	16	58.6	1	48.31	18	67.8	5	43.38	16	60.2	2	17.75	20	48.5	2
20	45.37	14	58.7	1	48.13	16	67.3	8	43.22	14	60.4	4	17.55	17	48.3	4
30	45.23	11	58.8	2	47.97	12	66.5	11	43.08	11	60.8	6	17.38	13	47.9	5
Mai 10	45.12	7	59.0	3	47.85	9	65.4	13	42.97	8	61.4	6	17.25	9	47.4	6
20	45.05	4	59.3	3	47.76	6	64.1	16	42.89	4	62.0	8	17.16	5	46.8	7
30	45.01	1	59.6	3	47.70	2	62.5	17	42.85	0	62.8	9	17.11	0	46.1	7
Juni 9	45.02	4	59.9	4	47.68	3	60.8	19	42.85	3	63.7	10	17.11	4	45.4	8
19	45.06	9	60.3	5	47.71	6	58.9	19	42.88	8	64.7	10	17.15	9	44.6	8
29	45.15	13	60.8	5	47.77	11	57.0	22	42.96	12	65.7	12	17.24	15	43.8	9
Juli 9	45.28	15	61.3	5	47.88	14	54.8	20	43.08	15	66.9	11	17.39	18	42.9	7
19	45.43	19	61.8	4	48.02	17	52.8	19	43.23	17	68.0	10	17.57	21	42.2	7
29	45.62	21	62.2	4	48.19	19	50.9	17	43.40	20	69.0	9	17.78	24	41.5	7
Aug. 8	45.83	23	62.6	4	48.38	22	49.2	15	43.60	22	69.9	7	18.02	27	40.8	7
18	46.06	25	63.0	2	48.60	24	47.7	12	43.82	24	70.6	6	18.29	29	40.1	6
28	46.31	27	63.2	0	48.84	26	46.5	8	44.06	26	71.2	4	18.58	32	39.5	6
Sept. 7	46.58	28	63.2	0	49.10	28	45.7	4	44.32	27	71.6	1	18.90	33	38.9	6
17	46.86	29	63.2	3	49.38	28	45.3	0	44.59	28	71.7	1	19.23	34	38.3	5
27	47.15	30	62.9	4	49.66	28	45.3	5	44.87	28	71.6	4	19.57	34	37.8	5
Oct. 7	47.45	30	62.5	6	49.94	29	45.8	8	45.15	29	71.2	7	19.91	35	37.3	4
17	47.75	29	61.9	7	50.23	29	46.6	13	45.44	29	70.5	9	20.26	35	36.9	3
27	48.04	29	61.2	9	50.52	27	47.9	17	45.73	28	69.6	12	20.61	34	36.6	3
Nov. 6	48.33	28	60.3	9	50.79	26	49.6	20	46.01	26	68.4	13	20.95	33	36.3	1
16	48.61	26	59.4	10	51.05	24	51.6	23	46.27	25	67.1	15	21.28	31	36.2	0
26	48.87	23	58.4	10	51.29	20	53.9	24	46.52	23	65.6	15	21.59	27	36.2	1
Dec. 6	49.10	19	57.4	9	51.49	17	56.3	25	46.75	19	64.1	15	21.86	24	36.3	3
16	49.29	16	56.5	9	51.66	13	58.8	26	46.94	15	62.6	15	22.10	19	36.6	4
26	49.45	11	55.6	7	51.79	9	61.4	25	47.09	10	61.1	13	22.29	14	37.0	5
36	49.56		54.9		51.88		63.9		47.19		59.8		22.43		37.5	
Mittl. Ort	43.98		68.6		47.25		49.0		41.93		73.8		15.91		51.3	
	110)				564)				392)				112)			

*) Ort des Hauptsterns; die jährliche Parallaxe ist bereits angebracht.

1901	15 Lyncis. $4^m.7$.				ϑ Canis maj. $4^m.3$.				ε Canis maj. $1^m.6$.				ζ Gemin. $3.7...4^m.5$.			
	AR.		Decl. +		AR.		Decl. —		AR.		Decl. —		AR.		Decl. +	
	$6^h\ 48^m$		58° 32′		$6^h\ 49^m$		11° 54′		$6^h\ 54^m$		28° 50′		$6^h\ 58^m$		20° 42′	
Jan. 0	46.49	15	62.0	20	37.66	8	59.8	22	46.38	6	21.2	30	16.78	11	47.9	2
10	46.64	5	64.0	21	37.74	3	62.0	20	46.44	2	24.2	28	16.89	7	47.7	2
20	46.69	3	66.1	20	37.77	2	64.0	18	46.46	4	27.0	26	16.96	1	47.5	0
30	46.66	12	68.1	19	37.75	6	65.8	16	46.42	9	29.6	22	16.97	4	47.5	1
Febr. 9	46.54	19	70.0	16	37.69	11	67.4	13	46.33	13	31.8	19	16.93	9	47.6	1
19	46.35	27	71.6	14	37.58	14	68.7	10	46.20	17	33.7	16	16.84	13	47.7	2
März 1	46.08	31	73.0	10	37.44	16	69.7	7	46.03	19	35.3	12	16.71	16	47.9	2
11	45.77	35	74.0	7	37.28	19	70.4	4	45.84	22	36.5	7	16.55	18	48.1	1
21	45.42	36	74.7	3	37.09	19	70.8	1	45.62	22	37.2	3	16.37	19	48.2	2
31	45.06	36	75.0	2	36.90	18	70.9	1	45.40	22	37.5	1	16.18	18	48.4	1
April 10	44.70	33	74.8	5	36.72	18	70.8	4	45.18	21	37.4	5	16.00	17	48.5	0
20	44.37	29	74.3	9	36.54	15	70.4	7	44.97	19	36.9	8	15.83	15	48.5	1
30	44.08	25	73.4	13	36.39	13	69.7	9	44.78	16	36.1	12	15.68	12	48.6	0
Mai 10	43.83	18	72.1	15	36.26	9	68.8	11	44.62	12	34.9	16	15.56	9	48.6	1
20	43.65	11	70.6	18	36.17	6	67.7	14	44.50	9	33.3	19	15.47	5	48.5	0
30	43.54	4	68.8	19	36.11	2	66.3	15	44.41	6	31.4	21	15.42	1	48.5	1
Juni 9	43.50	3	66.9	21	36.09	2	64.8	16	44.35	1	29.3	23	15.41	3	48.4	0
19	43.53	10	64.8	21	36.11	6	63.2	18	44.34	4	27.0	24	15.44	7	48.4	1
29	43.63	20	62.7	23	36.17	10	61.4	20	44.38	8	24.6	28	15.51	12	48.3	1
Juli 9	[3] 43.83	24	60.4	21	[3] 36.27	13	59.4	18	[4] 44.46	11	21.8	25	[5] 15.63	15	48.2	0
19	44.07	31	58.3	19	36.40	16	57.6	17	44.57	15	19.3	24	15.78	18	48.2	0
29	44.38	35	56.4	18	36.56	19	55.9	16	44.72	19	16.9	22	15.96	20	48.2	0
Aug. 8	44.73	40	54.6	17	36.75	21	54.3	13	44.91	21	14.7	20	16.16	23	48.2	1
18	45.13	44	52.9	15	36.96	23	53.0	11	45.12	24	12.7	17	16.39	25	48.1	2
28	45.57	48	51.4	12	37.19	25	51.9	8	45.36	26	11.0	12	16.64	27	47.9	3
Sept. 7	46.05	50	50.2	11	37.44	27	51.1	5	45.62	29	9.8	8	16.91	29	47.6	3
17	46.55	52	49.1	8	37.71	27	50.6	0	45.91	29	9.0	3	17.20	30	47.3	5
27	47.07	53	48.3	5	37.98	29	50.6	3	46.20	31	8.7	2	17.50	30	46.8	5
Oct. 7	47.60	53	47.8	2	38.27	29	50.9	8	46.51	31	8.9	8	17.80	31	46.3	7
17	48.13	54	47.6	1	38.56	28	51.7	12	46.82	30	9.7	13	18.11	32	45.6	7
27	48.67	52	47.7	4	38.84	28	52.9	15	47.12	30	11.0	18	18.43	31	44.9	7
Nov. 6	49.19	49	48.1	7	39.12	27	54.4	18	47.42	28	12.8	22	18.74	30	44.2	7
16	49.68	46	48.8	11	39.39	25	56.2	20	47.70	26	15.0	26	19.04	28	43.5	7
26	50.14	40	49.9	13	39.64	22	58.2	22	47.96	23	17.6	28	19.32	26	42.8	7
Dec. 6	50.54	34	51.2	16	39.86	19	60.4	23	48.19	19	20.4	30	19.58	22	42.1	6
16	50.88	27	52.8	18	40.05	15	62.7	23	48.38	15	23.4	30	19.80	19	41.5	4
26	51.15	19	54.6	20	40.20	9	65.0	22	48.53	9	26.4	30	19.99	13	41.1	3
36	51.34		56.6		40.29		67.2		48.62		29.4		20.12		40.8	
Mittl. Ort	42.40		70.0		35.40		52.4		44.06		14.4		14.27		56.4	
	394)				565)				566)				113)			

1901	γ Canis maj. $4^m.3$. AR.		Decl. −		δ Canis maj. $2^m.0$. AR.		Decl. −		63 Aurigae. $5^m.0$. AR.		Decl. +		λ Geminorum. $3^m.8$. AR.		Decl. +	
	$6^h\ 59^m$		15° 29′		$7^h\ 4^m$		26° 14′		$7^h\ 4^m$		39° 28′		$7^h\ 12^m$		16° 42′	
Jan. 0	18.98	8	20.5	24	24.23	8	16.7	29	53.77	14	47.2	8	26.68	12	60.1	6
10	19.06	4	22.9	23	24.31	3	19.6	28	53.91	8	48.0	10	26.80	8	59.5	4
20	19.10	1	25.2	20	24.34	2	22.4	25	53.99	1	49.0	11	26.88	2	59.1	3
30	19.09	6	27.2	17	24.32	7	24.9	22	54.00	5	50.1	11	26.90	3	58.8	1
Febr. 9	19.03	10	28.9	15	24.25	12	27.1	19	53.95	10	51.2	10	26.87	8	58.7	1
19	18.93	14	30.4	12	24.13	16	29.0	15	53.85	16	52.2	9	26.79	11	58.6	1
März 1	18.79	17	31.6	8	23.97	18	30.5	12	53.69	19	53.1	7	26.68	15	58.7	1
11	18.62	19	32.4	6	23.79	21	31.7	8	53.50	21	53.8	6	26.53	17	58.8	1
21	18.43	19	33.0	2	23.58	21	32.5	3	53.29	23	54.4	3	26.36	18	58.9	1
31	18.24	19	33.2	1	23.37	21	32.8	0	53.06	23	54.7	1	26.18	18	59.0	2
April 10	18.05	18	33.1	4	23.16	21	32.8	4	52.83	21	54.8	1	26.00	17	59.2	1
20	17.87	16	32.7	7	22.95	18	32.4	7	52.62	19	54.7	4	25.83	15	59.3	2
30	17.71	14	32.0	9	22.77	16	31.7	11	52.43	16	54.3	5	25.68	13	59.5	1
Mai 10	17.57	10	31.1	12	22.61	12	30.6	15	52.27	12	53.8	7	25.55	9	59.6	1
20	17.47	7	29.9	15	22.49	9	29.1	17	52.15	7	53.1	9	25.46	6	59.7	2
30	17.40	3	28.4	16	22.40	6	27.4	20	52.08	3	52.2	10	25.40	2	59.9	1
Juni 9	17.37	1	26.8	17	22.34	1	25.4	22	52.05	3	51.2	11	25.38	1	60.0	2
19	17.38	4	25.1	19	22.33	3	23.2	23	52.08	7	50.1	11	25.39	6	60.2	2
29	17.42	9	23.2	22	22.36	7	20.9	26	52.15	13	49.0	12	25.45	9	60.4	2
Juli 9	17.51	12	21.0	19	22.43	11	18.3	24	52.28	17	47.8	12	25.54	14	60.6	1
19	17.63	15	19.1	19	22.54	14	15.9	23	52.45	20	46.6	11	25.68	16	60.7	1
29	17.78	18	17.2	17	22.68	17	13.6	22	52.65	24	45.5	11	25.84	19	60.8	1
Aug. 8	17.96	20	15.5	15	22.85	21	11.4	19	52.89	27	44.4	10	26.03	21	60.9	0
18	18.16	23	14.0	12	23.06	23	9.5	16	53.16	29	43.4	10	26.24	24	60.9	1
28	18.39	25	12.8	9	23.29	25	7.9	12	53.45	32	42.4	9	26.48	25	60.8	2
Sept. 7	18.64	26	11.9	6	23.54	27	6.7	8	53.77	34	41.5	9	26.73	27	60.6	3
17	18.90	28	11.3	1	23.81	29	5.9	3	54.11	36	40.6	7	27.00	29	60.3	4
27	19.18	28	11.2	4	24.10	30	5.6	2	54.47	36	39.9	7	27.29	30	59.9	6
Oct. 7	19.46	29	11.6	7	24.40	30	5.8	7	54.83	38	39.2	6	27.59	30	59.3	8
17	19.75	30	12.3	12	24.70	31	6.5	13	55.21	38	38.6	4	27.89	31	58.5	8
27	20.05	28	13.5	15	25.01	30	7.8	17	55.59	37	38.2	3	28.20	31	57.7	9
Nov. 6	20.33	28	15.0	19	25.31	29	9.5	21	55.96	36	37.9	1	28.51	30	56.8	10
16	20.61	25	16.9	22	25.60	26	11.6	25	56.32	34	37.8	0	28.81	29	55.8	10
26	20.86	23	19.1	24	25.86	24	14.1	27	56.66	31	37.8	3	29.10	26	54.8	9
Dec. 6	21.09	19	21.5	24	26.10	20	16.8	29	56.97	27	38.1	5	29.36	23	53.9	9
16	21.28	16	23.9	25	26.30	15	19.7	30	57.24	23	38.6	7	29.59	19	53.0	7
26	21.44	11	26.4	24	26.45	10	22.7	29	57.47	17	39.3	8	29.78	14	52.3	7
36	21.55		28.8		26.55		25.6		57.64		40.1		29.92		51.6	
Mittl. Ort	16.71		13.2		21.93		9.9		50.82		56.5		24.24		69.1	
	567)				568)				395)				114)			

1901	δ Geminorum. $3^m.3$				19 Lyncis seq. $5^m.1$				ι Geminorum. $4^m.0$				Gr. 1308. $6^m.0$			
	AR.	Δ	Decl. +	Δ	AR.	Δ	Decl. +	Δ	AR.	Δ	Decl. +	Δ	AR.	Δ	Decl. +	Δ
	$7^h\ 14^m$		22° 9′		$7^h\ 14^m$		55° 27′		$7^h\ 19^m$		27° 59′		$7^h\ 20^m$		68° 39′	
Jan. 0	15.16	14	44.2	2	51.15	18	54.9	17	37.33	14	32.2	1	40.44	26	53.1	24
10	15.30	8	44.0	1	51.33	10	56.6	19	37.47	9	32.3	3	40.70	13	55.5	26
20	15.38	2	43.9	0	51.43	2	58.5	19	37.56	3	32.6	4	40.83	0	58.1	25
30	15.40	— 3	43.9	2	51.45	— 7	60.4	19	37.59	— 2	33.0	5	40.83	12	60.6	24
Febr. 9	15.37	7	44.1	2	51.38	14	62.3	17	37.57	8	33.5	5	40.71	24	63.0	22
19	15.30	12	44.3	3	51.24	21	64.0	15	37.49	12	34.0	6	40.47	35	65.2	19
März 1	15.18	16	44.6	3	51.03	26	65.5	13	37.37	15	34.6	4	40.12	42	67.1	16
11	15.02	17	44.9	2	50.77	31	66.8	9	37.22	18	35.0	4	39.70	49	68.7	11
21	14.85	18	45.1	3	50.46	32	67.7	5	37.04	20	35.4	4	39.21	52	69.8	7
31	14.67	19	45.4	1	50.14	32	68.2	2	36.84	19	35.8	2	38.69	53	70.5	3
April 10	14.48	18	45.5	1	49.82	32	68.4	— 2	36.65	19	36.0	1	38.16	52	70.8	— 3
20	14.30	15	45.6	1	49.50	28	68.2	6	36.46	17	36.1	— 1	37.64	48	70.5	8
30	14.15	13	45.7	0	49.22	24	67.6	9	36.29	14	36.0	1	37.16	42	69.7	12
Mai 10	14.02	10	45.7	1	48.98	19	66.7	13	36.15	11	35.9	2	36.74	35	68.5	16
20	13.92	7	45.6	1	48.79	14	65.4	15	36.04	6	35.7	4	36.39	26	66.9	20
30	13.85	2	45.5	1	48.65	7	63.9	17	35.98	3	35.3	4	36.13	16	64.9	22
Juni 9	13.83	— 2	45.4	1	48.58	1	62.2	18	35.95	— 1	34.9	4	35.97	7	62.7	24
19	13.85	5	45.3	2	48.57	— 6	60.4	20	35.96	5	34.5	5	35.90	— 3	60.3	25
29	13.90	10	45.1	1	48.63	12	58.4	20	36.01	9	34.0	5	35.93	13	57.8	26
Juli 9	14.00	14	45.0	2	48.75	21	56.4	22	36.10	14	33.5	6	36.06	25	55.2	29
19	14.14	17	44.8	2	48.96	24	54.2	20	36.24	17	32.9	5	36.31	33	52.3	26
29	14.31	19	44.6	2	49.20	29	52.2	19	36.41	20	32.4	6	36.64	40	49.7	25
Aug. 8	14.50	22	44.4	3	49.49	34	50.3	18	36.61	22	31.8	6	37.04	49	47.2	23
18	14.72	24	44.1	3	49.83	38	48.5	17	36.83	25	31.2	6	37.53	55	44.9	21
28	14.96	27	43.8	4	50.21	41	46.8	15	37.08	27	30.6	7	38.08	60	42.8	19
Sept. 7	15.23	28	43.4	5	50.62	44	45.3	13	37.35	29	29.9	7	38.68	66	40.9	17
17	15.51	29	42.9	6	51.06	47	44.0	11	37.64	31	29.2	7	39.34	70	39.2	13
27	15.80	31	42.3	7	51.53	48	42.9	8	37.95	32	28.5	8	40.04	73	37.9	10
Oct. 7	16.11	32	41.6	7	52.01	50	42.1	6	38.27	33	27.7	7	40.77	75	36.9	6
17	16.43	31	40.9	8	52.51	50	41.5	3	38.60	33	27.0	8	41.52	75	36.3	2
27	16.74	32	40.1	8	53.01	49	41.2	0	38.93	34	26.2	7	42.27	74	36.1	— 2
Nov. 6	17.06	31	39.3	8	53.50	48	41.2	3	39.27	33	25.5	7	43.01	71	36.3	6
16	17.37	30	38.5	7	53.98	45	41.5	6	39.60	31	24.8	5	43.72	67	36.9	11
26	17.67	27	37.8	7	54.43	41	42.1	9	39.91	29	24.3	4	44.39	61	38.0	14
Dec. 6	17.94	24	37.1	5	54.84	36	43.0	12	40.20	25	23.9	3	45.00	52	39.4	17
16	18.18	20	36.6	5	55.20	29	44.2	15	40.45	21	23.6	1	45.52	42	41.1	21
26	18.38	16	36.1	3	55.49	22	45.7	17	40.66	17	23.5	— 1	45.94	31	43.2	23
36	18.54		35.8		55.71		47.4		40.83		23.6		46.25		45.5	
Mittl. Ort	12.65		53.6		47.42		65.3		34.73		42.2		35.13		64.2	
	115)				397)				117)				116)			

1901	β Canis min. $3^m.0$ AR.		Decl. +		ρ Geminorum. $4^m.8$ AR.		Decl. +		α Gemin. 2.3 u. $3^m.3$ AR.		Decl. +		25 Monocerot. $5^m.3$ AR.		Decl. −	
	$7^h\ 21^m$	Δ	8° 29′	Δ	$7^h\ 22^m$	Δ	31° 58′	Δ	$7^h\ 28^m$	Δ	32° 6′	Δ	$7^h\ 32^m$	Δ	3° 53′	Δ
Jan. 0	49.27	13	11.5	11	47.30	16	43.6	4	19.52	16	10.4	4	23.50	12	31.5	19
10	49.40	8	10.4	9	47.46	9	44.0	5	19.68	10	10.8	5	23.62	8	33.4	17
20	49.48	3	9.5	8	47.55	4	44.5	6	19.78	4	11.3	6	23.70	3	35.1	15
30	49.51	3	8.7	6	47.59	2	45.1	8	19.82	1	11.9	8	23.73	3	36.6	13
Febr. 9	49.48	7	8.1	5	47.57	8	45.9	7	19.81	7	12.7	7	23.70	6	37.9	11
19	49.41	10	7.6	3	47.49	12	46.6	7	19.74	11	13.4	7	23.64	11	39.0	8
März 1	49.31	14	7.3	2	47.37	16	47.3	7	19.63	16	14.1	7	23.53	14	39.8	6
11	49.17	16	7.1	0	47.21	19	48.0	5	19.47	18	14.8	6	23.39	16	40.4	4
21	49.01	17	7.1	0	47.02	20	48.5	4	19.29	20	15.4	4	23.23	17	40.8	2
31	48.84	18	7.1	2	46.82	21	48.9	2	19.09	21	15.8	3	23.06	18	41.0	0
April 10	48.66	17	7.3	2	46.61	19	49.1	1	18.88	20	16.1	1	22.88	17	41.0	2
20	48.49	15	7.5	3	46.42	18	49.2	0	18.68	18	16.2	1	22.71	16	40.8	5
30	48.34	13	7.8	3	46.24	15	49.2	3	18.50	15	16.1	2	22.55	14	40.3	6
Mai 10	48.21	10	8.1	5	46.09	11	48.9	4	18.35	12	15.9	3	22.41	11	39.7	7
20	48.11	6	8.6	5	45.98	8	48.5	4	18.23	8	15.6	5	22.30	7	39.0	9
30	48.05	3	9.1	5	45.90	4	48.1	6	18.15	5	15.1	6	22.23	5	38.1	11
Juni 9	48.02	1	9.6	5	45.86	1	47.5	6	18.10	0	14.5	6	22.18	1	37.0	11
19	48.03	4	10.1	7	45.87	5	46.9	7	18.10	4	13.9	8	22.17	3	35.9	13
29	48.07	8	10.8	6	45.92	10	46.2	8	18.14	9	13.1	7	22.20	6	34.6	13
Juli 9	48.15	12	11.4	7	46.02	14	45.4	8	18.23	14	12.4	9	22.26	10	33.3	14
19	[11] 48.27	15	12.1	5	[11] 46.16	17	44.6	8	[13] 18.37	16	11.5	8	[14] 22.36	13	31.9	12
29	48.42	18	12.6	5	46.33	20	43.8	8	18.53	19	10.7	8	22.49	16	30.7	11
Aug. 8	48.60	19	13.1	4	46.53	23	43.0	8	18.72	23	9.9	9	22.65	18	29.6	10
18	48.79	22	13.5	3	46.76	26	42.2	8	18.95	25	9.0	9	22.83	20	28.6	8
28	49.01	24	13.8	0	47.02	28	41.4	8	19.20	27	8.1	8	23.03	23	27.8	5
Sept. 7	49.25	25	13.8	1	47.30	30	40.6	9	19.47	30	7.3	9	23.26	25	27.3	2
17	49.50	27	13.7	4	47.60	32	39.7	8	19.77	31	6.4	9	23.51	27	27.1	1
27	49.77	29	13.3	5	47.92	33	38.9	8	20.08	33	5.5	9	23.78	28	27.2	4
Oct. 7	50.06	29	12.8	8	48.25	34	38.1	8	20.41	34	4.6	8	24.06	29	27.6	7
17	50.35	30	12.0	10	48.59	35	37.3	7	20.75	35	3.8	8	24.35	29	28.3	11
27	50.65	30	11.0	11	48.94	34	36.6	6	21.10	35	3.0	7	24.64	29	29.4	14
Nov. 6	50.95	29	9.9	13	49.28	34	36.0	6	21.45	34	2.3	6	24.93	30	30.8	16
16	51.24	28	8.6	13	49.62	33	35.4	4	21.79	33	1.7	4	25.23	27	32.4	18
26	51.52	26	7.3	14	49.95	30	35.0	2	22.12	30	1.3	3	25.50	26	34.2	19
Dec. 6	51.78	23	5.9	13	50.25	27	34.8	1	22.42	28	1.0	1	25.76	23	36.1	20
16	52.01	19	4.6	13	50.52	23	34.7	1	22.70	23	0.9	1	25.99	19	38.1	19
26	52.20	15	3.3	11	50.75	17	34.8	3	22.93	19	1.0	3	26.18	15	40.0	19
36	52.35		2.2		50.92		35.1		23.12		1.3		26.33		41.9	
Mittl. Ort	46.94		20.4		44.62		53.9		16.86		21.1		21.23		23.3	
	118)				398)				119)				569)			

1901	α Canis min.*) 1m.				24 Lyncis. 5m.1.				κ Geminorum. 3m.6.				β Geminorum. 1m.3.			
	AR.	Δ	Decl. +	Δ	AR.	Δ	Decl. +	Δ	AR.	Δ	Decl. +	Δ	AR.	Δ	Decl. +	Δ
	$7^h 34^m$		5° 28′		$7^h 34^m$		58° 56′		$7^h 38^m$		24° 37′		$7^h 39^m$		28° 15′	
Jan. 0	9.54	13	34.1	13	41.94	23	19.2	19	30.79	16	57.1	2	18.09	16	44.6	0
10	9.67	9	32.8	12	42.17	14	21.1	20	30.95	11	56.9	0	18.25	11	44.6	3
20	9.76	3	31.6	10	42.31	5	23.1	21	31.06	5	56.9	2	18.36	6	44.9	4
30	9.79	— 1	30.6	8	42.36	— 5	25.2	21	31.11	— 1	57.1	2	18.42	— 1	45.3	5
Febr. 9	9.78	6	29.8	7	42.31	13	27.3	20	31.10	6	57.3	4	18.41	6	45.8	6
19	9.72	10	29.1	5	42.18	21	29.3	18	31.04	10	57.7	4	18.35	11	46.4	6
März 1	9.62	13	28.6	3	41.97	27	31.1	15	30.94	14	58.1	5	18.24	14	47.0	6
11	9.49	16	28.3	1	41.70	32	32.6	11	30.80	16	58.6	4	18.10	17	47.6	5
21	9.33	17	28.2	1	41.38	35	33.7	8	30.64	18	59.0	4	17.93	19	48.1	5
31	9.16	17	28.1	— 1	41.03	36	34.5	4	30.46	19	59.4	3	17.74	20	48.6	3
April 10	8.99	17	28.2	2	40.67	35	34.9	0	30.27	18	59.7	2	17.54	19	48.9	2
20	8.82	16	28.4	3	40.32	33	34.9	4	30.09	17	59.9	1	17.35	17	49.1	1
30	8.66	13	28.7	4	39.99	29	34.5	8	29.92	15	60.0	0	17.18	15	49.2	— 1
Mai 10	8.53	10	29.1	5	39.70	24	33.7	12	29.77	11	60.0	0	17.03	12	49.1	2
20	8.43	8	29.6	5	39.46	18	32.5	15	29.66	8	60.0	2	16.91	9	48.9	3
30	8.35	4	30.1	7	39.28	11	31.0	18	29.58	4	59.8	2	16.82	5	48.6	3
Juni 9	8.31	0	30.8	7	39.17	5	29.2	19	29.54	1	59.6	2	16.77	0	48.3	5
19	8.31	2	31.5	7	39.12	— 2	27.3	21	29.53	— 3	59.4	3	16.77	3	47.8	5
29	8.33	7	32.2	7	39.14	9	25.2	22	29.56	7	59.1	4	16.80	7	47.3	5
Juli 9	8.40	11	32.9	8	39.23	18	23.0	25	29.63	12	58.7	4	16.87	12	46.8	7
19	14 8.51	12	33.7	7	14 39.41	22	20.5	23	15 29.75	14	58.3	4	15 16.99	14	46.1	6
29	8.63	16	34.4	6	39.63	28	18.2	21	29.89	18	57.9	5	17.13	18	45.5	7
Aug. 8	8.79	18	35.0	4	39.91	33	16.1	21	30.07	20	57.4	5	17.31	20	44.8	7
18	8.97	21	35.4	4	40.24	39	14.0	20	30.27	23	56.9	6	17.51	23	44.1	8
28	9.18	23	35.8	1	40.63	42	12.0	18	30.50	25	56.3	7	17.74	26	43.3	8
Sept. 7	9.41	24	35.9	— 1	41.05	46	10.2	17	30.75	27	55.6	7	18.00	28	42.5	8
17	9.65	26	35.8	4	41.51	49	8.5	14	31.02	29	54.9	8	18.28	30	41.7	9
27	9.91	28	35.4	6	42.00	52	7.1	11	31.31	31	54.1	8	18.58	31	40.8	10
Oct. 7	10.19	29	34.8	8	42.52	54	6.0	9	31.62	32	53.3	9	18.89	33	39.8	9
17	10.48	30	34.0	11	43.06	54	5.1	5	31.94	32	52.4	10	19.22	34	38.9	9
27	10.78	30	32.9	12	43.60	54	4.6	2	32.26	33	51.4	9	19.56	33	38.0	8
Nov. 6	11.08	29	31.7	15	44.14	53	4.4	— 1	32.59	33	50.5	9	19.89	34	37.2	8
16	11.37	28	30.2	15	44.67	51	4.5	5	32.92	31	49.6	8	20.23	32	36.4	7
26	11.65	26	28.7	15	45.18	46	5.0	9	33.23	30	48.8	7	20.55	30	35.7	6
Dec. 6	11.91	23	27.2	16	45.64	42	5.9	12	33.53	26	48.1	6	20.85	27	35.1	4
16	12.14	20	25.6	15	46.06	35	7.1	15	33.79	23	47.5	4	21.12	23	34.7	2
26	12.34	16	24.1	14	46.41	26	8.6	18	34.02	18	47.1	3	21.35	19	34.5	0
36	12.50		22.7		46.67		10.4		34.20		46.8		21.54		34.5	
Mittl. Ort	7.20		43.9		38.04		31.5		28.29		67.7		15.53		55.7	
	120)				399)				121)				122)			

*) Die Angaben für α Canis min. beziehen sich hier auf den Ort des sichtbaren Sterns.

1901	π Geminorum. $6^m.0$.				Gr. 1374. $5^m.4$.				χ Geminorum. $5^m.0$				27 Lyncis. $4^m.6$.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$7^h\ 41^m$		33° 39′		$7^h\ 48^m$		74° 10′		$7^h\ 57^m$		28° 3′		$8^h\ 1^m$		51° 47′	
Jan. 0	10.19	17	20.6	4	27.42	40	43.8	24	28.84	18	67.5	0	3.90	24	18.1	13
10	10.36	12	21.0	6	27.82	24	46.2	27	29.02	13	67.5	2	4.14	17	19.4	16
20	10.48	5	21.6	7	28.06	7	48.9	28	29.15	7	67.7	3	4.31	9	21.0	17
30	10.53	0	22.3	8	28.13	— 10	51.7	27	29.22	2	68.0	5	4.40	1	22.7	18
Febr. 9	10.53	6	23.1	9	28.03	26	54.4	25	29.24	— 4	68.5	6	4.41	— 7	24.5	18
19	10.47	11	24.0	8	27.77	41	56.9	23	29.20	9	69.1	7	4.34	13	26.3	17
März 1	10.36	15	24.8	8	27.36	52	59.2	20	29.11	13	69.8	6	4.21	20	28.0	16
11	10.21	18	25.6	7	26.84	63	61.2	15	28.98	16	70.4	6	4.01	24	29.6	13
21	10.03	20	26.3	5	26.21	68	62.7	10	28.82	18	71.0	6	3.77	27	30.9	10
31	9.83	20	26.8	4	25.53	71	63.7	6	28.64	19	71.6	4	3.50	28	31.9	6
April 10	9.63	21	27.2	2	24.82	72	64.3	0	28.45	19	72.0	3	3.22	29	32.5	3
20	9.42	18	27.4	0	24.10	68	64.3	5	28.26	18	72.3	2	2.93	27	32.8	0
30	9.24	17	27.4	2	23.42	63	63.8	10	28.08	15	72.5	0	2.66	25	32.8	4
Mai 10	9.07	13	27.2	3	22.79	55	62.8	15	27.93	13	72.5	1	2.41	21	32.4	8
20	8.94	9	26.9	5	22.24	45	61.3	18	27.80	9	72.4	2	2.20	16	31.6	10
30	8.85	5	26.4	6	21.79	33	59.5	23	27.71	7	72.2	3	2.04	12	30.6	13
Juni 9	8.80	1	25.8	7	21.46	21	57.2	25	27.64	2	71.9	4	1.92	6	29.3	15
19	8.79	— 3	25.1	8	21.25	8	54.7	26	27.62	— 2	71.5	5	1.86	1	27.8	17
29	8.82	7	24.3	9	21.17	— 5	52.1	28	27.64	6	71.0	5	1.85	— 5	26.1	19
Juli 9	8.89	12	23.4	10	21.22	20	49.3	31	27.70	9	70.5	7	1.90	10	24.2	19
19	16 9.01	16	22.4	9	18 21.42	31	46.2	29	27.79	13	69.8	7	2.00	17	22.3	22
29	9.17	18	21.5	10	21.73	43	43.3	29	20 27.92	16	69.1	7	21 2.17	20	20.1	20
Aug. 8	9.35	22	20.5	10	22.16	54	40.4	27	28.08	18	68.4	8	2.37	25	18.1	20
18	9.57	24	19.5	10	22.70	63	37.7	26	28.26	22	67.6	9	2.62	29	16.1	20
28	9.81	27	18.5	11	23.33	73	35.1	23	28.48	24	66.7	9	2.91	33	14.1	18
Sept. 7	10.08	29	17.4	10	24.06	80	32.8	21	28.72	27	65.8	10	3.24	36	12.3	18
17	10.37	32	16.4	10	24.86	87	30.7	18	28.99	29	64.8	10	3.60	39	10.5	16
27	10.69	33	15.4	10	25.73	92	28.9	14	29.28	30	63.8	10	3.99	42	8.9	14
Oct. 7	11.02	34	14.4	10	26.65	96	27.5	10	29.58	33	62.8	11	4.41	45	7.5	12
17	11.36	36	13.4	9	27.61	98	26.5	6	29.91	33	61.7	11	4.86	46	6.3	10
27	11.72	35	12.5	7	28.59	97	25.9	2	30.24	34	60.6	10	5.32	46	5.3	7
Nov. 6	12.07	36	11.8	7	29.56	95	25.7	— 3	30.58	34	59.6	10	5.78	46	4.6	4
16	12.43	34	11.1	5	30.51	90	26.0	8	30.92	33	58.6	8	6.24	45	4.2	1
26	12.77	31	10.6	3	31.41	85	26.8	12	31.25	32	57.8	7	6.69	43	4.1	— 3
Dec. 6	13.08	29	10.3	1	32.26	74	28.0	17	31.57	28	57.1	5	7.12	38	4.4	6
16	13.37	25	10.2	— 1	33.00	61	29.7	20	31.85	25	56.6	3	7.50	34	5.0	10
26	13.62	20	10.3	3	33.61	48	31.7	24	32.10	21	56.3	1	7.84	27	6.0	12
36	13.82		10.6		34.09		34.1		32.31		56.2		8.11		7.2	
Mittl. Ort	7.52		32.1		20.97		57.5		26.34		79.5		0.67		32.2	
	400)				401)				404)				405)			

1901	ι Navis. $3^m.0$				Br. 1147. $5^m.1$				20 Navis. $6^m.0$				β Cancri. $3^m.6$			
	AR.		Decl. −		AR.		Decl. +		AR.		Decl. −		AR.		Decl. +	
	$8^h\ 3^m$		24° 1'		$8^h\ 7^m$		76° 2'		$8^h\ 8^m$		15° 29'		$8^h\ 11^m$		9° 29'	
Jan. 0	21.87s	15	13.7"	30	13.66s	51	78.0"	24	49.15s	15	31.3"	26	11.04s	17	16.4"	12
10	22.02	11	16.7	28	14.17	33	80.4	27	49.30	11	33.9	24	11.21	13	15.2	10
20	22.13	4	19.5	26	14.50	14	83.1	28	49.41	5	36.3	22	11.34	7	14.2	8
30	22.17	0	22.1	24	14.64	5	85.9	28	49.46	1	38.5	20	11.41	3	13.4	6
Febr. 9	22.17	5	24.5	22	14.59	24	88.7	27	49.47	4	40.5	18	11.44	2	12.8	4
19	22.12	10	26.7	18	14.35	41	91.4	25	49.43	9	42.3	15	11.42	7	12.4	3
März 1	22.02	14	28.5	15	13.94	55	93.9	22	49.34	12	43.8	12	11.35	11	12.1	1
11	21.88	17	30.0	12	13.39	67	96.1	17	49.22	15	45.0	9	11.24	14	12.0	0
21	21.71	18	31.2	7	12.72	75	97.8	13	49.07	16	45.9	6	11.10	15	12.0	2
31	21.53	20	31.9	4	11.97	80	99.1	8	48.91	18	46.5	3	10.95	17	12.2	2
April 10	21.33	20	32.3	1	11.17	82	99.9	3	48.73	18	46.8	1	10.78	16	12.4	2
20	21.13	19	32.4	4	10.35	80	100.2	3	48.55	17	46.7	3	10.62	16	12.6	4
30	20.94	17	32.0	6	9.55	74	99.9	9	48.38	16	46.4	6	10.46	14	13.0	3
Mai 10	20.77	15	31.4	10	8.81	67	99.0	13	48.22	13	45.8	8	10.32	12	13.3	4
20	20.62	13	30.4	13	8.14	57	97.7	17	48.09	11	45.0	11	10.20	9	13.7	5
30	20.49	9	29.1	16	7.57	45	96.0	22	47.98	7	43.9	13	10.11	6	14.2	4
Juni 9	20.40	6	27.5	17	7.12	31	93.8	24	47.91	5	42.6	15	10.05	4	14.6	5
19	20.34	2	25.8	20	6.81	18	91.4	27	47.86	2	41.1	16	10.01	1	15.1	5
29	20.32	2	23.8	21	6.63	3	88.7	29	47.84	2	39.5	17	10.02	3	15.6	5
Juli 9	20.34	5	21.7	21	6.60	12	85.8	30	47.86	5	37.8	18	10.05	7	16.1	4
19	20.39	9	19.6	24	6.72	29	82.8	33	47.91	9	36.0	19	10.12	10	16.5	4
29	[21] 20.48	12	17.2	21	[22] 7.01	40	79.5	30	[23] 48.00	12	34.1	17	[23] 10.22	13	16.9	3
Aug. 8	20.60	16	15.1	19	7.41	52	76.5	30	48.12	14	32.4	15	10.35	15	17.2	2
18	20.76	18	13.2	16	7.93	65	73.5	27	48.26	18	30.9	13	10.50	18	17.4	0
28	20.94	21	11.6	13	8.58	75	70.8	26	48.44	20	29.6	10	10.68	21	17.4	1
Sept. 7	21.15	24	10.3	10	9.33	86	68.2	23	48.64	22	28.6	6	10.89	23	17.3	3
17	21.39	26	9.3	5	10.19	93	65.9	20	48.86	25	28.0	3	11.12	25	17.0	5
27	21.65	28	8.8	1	11.12	100	63.9	17	49.11	27	27.7	1	11.37	27	16.5	8
Oct. 7	21.93	30	8.7	4	12.12	106	62.2	13	49.38	29	27.8	6	11.64	28	15.7	9
17	22.23	30	9.1	10	13.18	108	60.9	9	49.67	29	28.4	10	11.92	30	14.8	12
27	22.53	31	10.1	14	14.26	110	60.0	4	49.96	31	29.4	14	12.22	31	13.6	13
Nov. 6	22.84	30	11.5	19	15.36	109	59.6	1	50.27	31	30.8	17	12.53	31	12.3	14
16	23.14	30	13.4	22	16.45	104	59.7	6	50.58	29	32.5	21	12.84	30	10.9	16
26	23.44	28	15.6	25	17.49	97	60.3	11	50.87	28	34.6	23	13.14	29	9.3	15
Dec. 6	23.72	25	18.1	28	18.46	87	61.4	16	51.15	25	36.9	25	13.43	27	7.8	14
16	23.97	21	20.9	29	19.33	74	63.0	19	51.40	22	39.4	25	13.70	23	6.4	14
26	24.18	17	23.8	29	20.07	60	64.9	24	51.62	18	41.9	26	13.93	19	5.0	13
36	24.35		26.7		20.67		67.3		51.80		44.5		14.12		3.7	
Mittl. Ort	19.64		8.0		6.80		93.5		46.94		24.5		8.80		26.8	
	570)				406)				571)				123)			

1901	31 Lyncis. $5^m.0$.				Br. 1197. $3^m.6$.				o Ursae maj. $3^m.3$.				Gr. 1450. $6^m.4$.			
	AR.		Decl. +		AR.		Decl. —		AR.		Decl. +		AR.		Decl. +	
	$8^h\ 16^m$		43° 29′		$8^h\ 20^m$		3° 34′		$8^h\ 22^m$		61° 2′		$8^h\ 26^m$		38° 20′	
Jan. 0	6.50	23	66.2	8	44.96	18	68.1	20	6.30	33	41.1	17	31.40	23	65.6	5
10	6.73	17	67.0	11	45.14	13	70.1	18	6.63	23	42.8	20	31.63	17	66.1	7
20	6.90	11	68.1	13	45.27	7	71.9	16	6.86	13	44.8	22	31.80	11	66.8	9
30	7.01	3	69.4	14	45.34	3	73.5	14	6.99	4	47.0	22	31.91	5	67.7	11
Febr. 9	7.04	— 3	70.8	14	45.37	— 2	74.9	12	7.03	— 6	49.2	23	31.96	— 1	68.8	12
19	7.01	9	72.2	14	45.35	7	76.1	9	6.97	15	51.5	21	31.95	8	70.0	13
März 1	6.92	15	73.6	14	45.28	10	77.0	7	6.82	23	53.6	20	31.87	12	71.3	12
11	6.77	19	75.0	12	45.18	13	77.7	5	6.59	30	55.6	17	31.75	16	72.5	11
21	6.58	21	76.2	9	45.05	15	78.2	3	6.29	34	57.3	13	31.59	19	73.6	9
31	6.37	23	77.1	8	44.90	17	78.5	0	5.95	36	58.6	9	31.40	21	74.5	8
April 10	6.14	24	77.9	5	44.73	16	78.5	1	5.59	38	59.5	5	31.19	21	75.3	5
20	5.90	22	78.4	2	44.57	16	78.4	4	5.21	37	60.0	1	30.98	21	75.8	3
30	5.68	21	78.6	— 2	44.41	14	78.0	4	4.84	35	60.1	— 3	30.77	19	76.1	1
Mai 10	5.47	18	78.4	4	44.27	13	77.6	6	4.49	30	59.8	8	30.58	17	76.2	— 2
20	5.29	14	78.0	6	44.14	10	77.0	8	4.19	26	59.0	12	30.41	13	76.0	4
30	5.15	10	77.4	9	44.04	7	76.2	9	3.93	20	57.8	15	30.28	10	75.6	7
Juni 9	5.05	6	76.5	11	43.97	4	75.3	10	3.73	14	56.3	18	30.18	6	74.9	8
19	4.99	2	75.4	13	43.93	1	74.3	11	3.59	7	54.5	21	30.12	2	74.1	10
29	4.97	— 3	74.1	14	43.92	— 1	73.2	11	3.52	0	52.4	22	30.10	— 2	73.1	11
Juli 9	5.00	8	72.7	15	43.93	5	72.1	12	3.52	6	50.2	24	30.12	6	72.0	13
19	5.08	13	71.2	17	43.98	9	70.9	12	3.58	15	47.8	27	30.18	11	70.7	14
29	24 5.21	16	69.5	17	26 44.07	11	69.7	10	26 3.73	20	45.1	26	27 30.29	14	69.3	15
Aug. 8	5.37	20	67.8	17	44.18	14	68.7	9	3.93	27	42.5	25	30.43	17	67.8	15
18	5.57	23	66.1	17	44.32	16	67.8	7	4.20	32	40.0	24	30.60	21	66.3	15
28	5.80	27	64.4	17	44.48	19	67.1	4	4.52	37	37.6	24	30.81	24	64.8	15
Sept. 7	6.07	30	62.7	17	44.67	21	66.7	2	4.89	42	35.2	22	31.05	27	63.3	16
17	6.37	33	61.0	15	44.88	24	66.5	— 1	5.31	47	33.0	21	31.32	30	61.7	15
27	6.70	36	59.5	15	45.12	26	66.6	4	5.78	50	30.9	18	31.62	33	60.2	15
Oct. 7	7.06	38	58.0	14	45.38	28	67.0	8	6.28	54	29.1	15	31.95	34	58.7	14
17	7.44	39	56.6	12	45.66	30	67.8	10	6.82	56	27.6	12	32.29	36	57.3	14
27	7.83	41	55.4	10	45.96	30	68.8	14	7.38	58	26.4	9	32.65	38	55.9	12
Nov. 6	8.24	40	54.4	8	46.26	30	70.2	16	7.96	58	25.5	4	33.03	39	54.7	10
16	8.64	40	53.6	5	46.56	30	71.8	19	8.54	57	25.1	1	33.42	38	53.7	8
26	9.04	38	53.1	2	46.86	29	73.7	19	9.11	54	25.0	— 4	33.80	36	52.9	5
Dec. 6	9.42	36	52.9	— 1	47.15	26	75.6	21	9.65	49	25.4	8	34.16	34	52.4	2
16	9.78	31	53.0	4	47.41	23	77.7	20	10.14	44	26.2	12	34.50	30	52.2	— 1
26	10.09	26	53.4	7	47.64	19	79.7	20	10.58	36	27.4	16	34.80	25	52.3	3
36	10.35		54.1		47.83		81.7		10.94		29.0		35.05		52.6	
Mittl. Ort	3.71		80.8		42.80		59.5		2.58		57.4		28.81		80.4	
	407)				124)				125)				408)			

1901	η Cancri. 5m.8. AR.	Δ	Decl. +	Δ	δ Cancri. 4m.0. AR.	Δ	Decl. +	Δ	ι Cancri. 4m.1. AR.	Δ	Decl. +	Δ	ζ Hydrae. 3m.3. AR.	Δ	Decl. +	Δ
	8h 26m		20° 46′		8h 39m		18° 30′		8h 40m		29° 6′		8h 50m		6° 18′	
Jan. 0	61.39	20	27.0	6	5.79	22	53.5	7	44.84	23	66.0	2	11.78	21	70.3	15
10	61.59	15	26.4	4	6.01	16	52.8	6	45.07	17	65.8	2	11.99	16	68.8	13
20	61.74	10	26.0	2	6.17	10	52.2	3	45.24	12	66.0	3	12.15	11	67.5	11
30	61.84	4	25.8	1	6.27	6	51.9	1	45.36	6	66.3	5	12.26	6	66.4	9
Febr. 9	61.88	1	25.9	2	6.33	0	51.8	1	45.42	1	66.8	7	12.32	1	65.5	7
19	61.87	5	26.1	3	6.33	4	51.9	2	45.43	5	67.5	8	12.33	4	64.8	4
März 1	61.82	10	26.4	5	6.29	9	52.1	3	45.38	9	68.3	9	12.29	7	64.4	3
11	61.72	13	26.9	5	6.20	12	52.4	4	45.29	14	69.2	9	12.22	11	64.1	1
21	61.59	16	27.4	4	6.08	15	52.8	5	45.15	16	70.1	7	12.11	14	64.0	1
31	61.43	17	27.8	5	5.93	16	53.3	4	44.99	17	70.8	7	11.97	14	64.1	2
April 10	61.26	17	28.3	4	5.77	16	53.7	5	44.82	19	71.5	6	11.83	16	64.3	2
20	61.09	16	28.7	4	5.61	17	54.2	4	44.63	18	72.1	4	11.67	15	64.5	4
30	60.93	16	29.1	3	5.44	15	54.6	3	44.45	16	72.5	3	11.52	14	64.9	4
Mai 10	60.77	13	29.4	2	5.29	13	54.9	3	44.29	15	72.8	1	11.38	13	65.3	5
20	60.64	10	29.6	1	5.16	11	55.2	2	44.14	12	72.9	0	11.25	11	65.8	5
30	60.54	8	29.7	1	5.05	8	55.4	2	44.02	10	72.9	2	11.14	8	66.3	6
Juni 9	60.46	4	29.8	0	4.97	5	55.6	1	43.92	6	72.7	4	11.06	6	66.9	6
19	60.42	1	29.8	1	4.92	2	55.7	0	43.86	2	72.3	5	11.00	3	67.5	6
29	60.41	2	29.7	2	4.90	1	55.7	0	43.84	1	71.8	6	10.97	0	68.1	6
Juli 9	60.43	6	29.5	2	4.91	4	55.7	2	43.85	4	71.2	7	10.97	2	68.7	5
19	60.49	9	29.3	4	4.95	8	55.5	2	43.89	8	70.5	9	10.99	6	69.2	5
29	27 60.58	12	28.9	4	5.03	11	55.3	3	43.97	12	69.6	10	11.05	10	69.7	4
Aug. 8	60.70	15	28.5	5	30 5.14	14	55.0	4	31 44.09	14	68.6	10	2 11.15	11	70.1	3
18	60.85	18	28.0	6	5.28	16	54.6	6	44.23	17	67.6	11	11.26	15	70.4	1
28	61.03	20	27.4	7	5.44	19	54.0	7	44.40	21	66.5	12	11.41	17	70.5	1
Sept. 7	61.23	23	26.7	9	5.63	22	53.3	8	44.61	24	65.3	13	11.58	20	70.4	3
17	61.46	26	25.8	9	5.85	24	52.5	9	44.85	26	64.0	14	11.78	22	70.1	5
27	61.72	27	24.9	11	6.09	27	51.6	12	45.11	28	62.6	14	12.00	24	69.6	7
Oct. 7	61.99	30	23.8	12	6.36	28	50.4	12	45.39	31	61.2	14	12.24	27	68.9	10
17	62.29	31	22.6	13	6.64	31	49.2	13	45.70	33	59.8	14	12.51	29	67.9	13
27	62.60	33	21.3	13	6.95	32	47.9	14	46.03	34	58.4	14	12.80	31	66.6	14
Nov. 6	62.93	33	20.0	13	7.27	33	46.5	15	46.37	35	57.0	13	13.11	31	65.2	16
16	63.26	32	18.7	13	7.60	32	45.0	14	46.72	35	55.7	12	13.42	31	63.6	17
26	63.58	31	17.4	12	7.92	32	43.6	13	47.07	34	54.5	9	13.73	30	61.9	17
Dec. 6	63.89	29	16.2	10	8.24	30	42.3	12	47.41	32	53.6	8	14.03	29	60.2	18
16	64.18	27	15.2	9	8.54	26	41.1	11	47.73	29	52.8	5	14.32	26	58.4	16
26	64.45	22	14.3	7	8.80	22	40.0	9	48.02	25	52.3	3	14.58	23	56.8	16
36	64.67		13.6		9.02		39.1		48.27		52.0		14.81		55.2	
Mittl. Ort	59.10		39.4		3.58		66.0		42.50		80.2		9.68		80.8	
	409)				126)				127)				129)			

1901	ι Ursae maj. 3m.0 AR.		ι Ursae maj. Decl. +		α Cancri. 4m.0 AR.		α Cancri. Decl. +	
	8h 52m		48° 25′		8h 53m		12° 14′	
Jan. 0	28.71 s	29	32.2 ″	9	6.51 s	21	16.2 ″	12
10	29.00	23	33.1	12	6.72	17	15.0	10
20	29.23	16	34.3	14	6.89	12	14.0	7
30	29.39	8	35.7	16	7.01	7	13.3	5
Febr. 9	29.47	1	37.3	18	7.08	1	12.8	3
19	29.48	6	39.1	18	7.09	3	12.5	1
März 1	29.42	12	40.9	18	7.06	7	12.4	0
11	29.30	17	42.7	16	6.99	11	12.4	2
21	29.13	22	44.3	14	6.88	13	12.6	3
31	28.91	24	45.7	11	6.75	15	12.9	3
April 10	28.67	25	46.8	8	6.60	16	13.2	4
20	28.42	25	47.6	5	6.44	16	13.6	4
30	28.17	25	48.1	1	6.28	14	14.0	5
Mai 10	27.92	22	48.2	2	6.14	13	14.5	4
20	27.70	19	48.0	5	6.01	11	14.9	4
30	27.51	15	47.5	9	5.90	9	15.3	4
Juni 9	27.36	12	46.6	11	5.81	6	15.7	3
19	27.24	6	45.5	13	5.75	3	16.0	3
29	27.18	2	44.2	16	5.72	0	16.3	3
Juli 9	27.16	2	42.6	18	5.72	3	16.6	2
19	27.18	7	40.8	19	5.75	5	16.8	2
29	27.25	12	38.9	23	5.80	10	17.0	0
Aug. 8	27.37	16	36.6	21	5.90	11	17.0	1
18	27.53	20	34.5	21	6.01	15	16.9	2
28	27.73	24	32.4	21	6.16	17	16.7	4
Sept. 7	27.97	28	30.3	21	6.33	20	16.3	6
17	28.25	32	28.2	21	6.53	23	15.7	8
27	28.57	36	26.1	20	6.76	25	14.9	9
Oct. 7	28.93	38	24.1	18	7.01	27	14.0	12
17	29.31	41	22.3	16	7.28	29	12.8	13
27	29.72	43	20.7	14	7.57	31	11.5	15
Nov. 6	30.15	43	19.3	11	7.88	32	10.0	15
16	30.58	44	18.2	8	8.20	32	8.5	16
26	31.02	43	17.4	5	8.52	31	6.9	16
Dec. 6	31.45	41	16.9	0	8.83	29	5.3	15
16	31.86	37	16.9	3	9.12	27	3.8	15
26	32.23	32	17.2	7	9.39	24	2.3	12
36	32.55		17.9		9.63		1.1	
Mittl. Ort	25.98		49.6		4.39		28.0	
	130)				131)			

1901	10 Ursae maj. 4m.0 AR.		10 Ursae maj. Decl. +		κ Ursae maj. 3m.3 AR.		κ Ursae maj. Decl. +	
	8h 54m		42° 9′		8h 56m		47° 32′	
Jan. 0	15.46 s	27	72.4 ″	5	54.84 s	30	35.5 ″	8
10	15.73	22	72.9	9	55.14	24	36.3	11
20	15.95	15	73.8	11	55.38	16	37.4	14
30	16.10	8	74.9	13	55.54	9	38.8	16
Febr. 9	16.18	1	76.2	14	55.63	2	40.4	17
19	16.19	4	77.6	15	55.65	5	42.1	17
März 1	16.15	11	79.1	14	55.60	11	43.8	18
11	16.04	15	80.5	14	55.49	17	45.6	16
21	15.89	18	81.9	13	55.32	20	47.2	14
31	15.71	21	83.2	10	55.12	23	48.6	11
April 10	15.50	22	84.2	8	54.89	25	49.7	9
20	15.28	22	85.0	5	54.64	24	50.6	5
30	15.06	21	85.5	3	54.40	24	51.1	2
Mai 10	14.85	19	85.8	1	54.16	22	51.3	1
20	14.66	17	85.7	3	53.94	19	51.2	4
30	14.49	13	85.4	6	53.75	15	50.8	8
Juni 9	14.36	9	84.8	9	53.60	11	50.0	11
19	14.27	6	83.9	11	53.49	7	48.9	13
29	14.21	2	82.8	12	53.42	3	47.6	15
Juli 9	14.19	3	81.6	15	53.39	1	46.1	17
19	14.22	6	80.1	16	53.40	7	44.4	19
29	14.28	12	78.5	18	53.47	11	42.5	21
Aug. 8	14.40	14	76.7	18	53.58	15	40.4	21
18	14.54	18	74.9	19	53.73	20	38.3	21
28	14.72	22	73.0	19	53.93	23	36.2	22
Sept. 7	14.94	26	71.1	19	54.16	27	34.0	21
17	15.20	28	69.2	19	54.43	31	31.9	21
27	15.48	32	67.3	18	54.74	35	29.8	20
Oct. 7	15.80	35	65.5	18	55.09	38	27.8	18
17	16.15	37	63.7	16	55.47	40	26.0	17
27	16.52	39	62.1	15	55.87	42	24.3	14
Nov. 6	16.91	40	60.6	12	56.29	43	22.9	12
16	17.31	40	59.4	10	56.72	44	21.7	9
26	17.71	40	58.4	7	57.16	43	20.8	5
Dec. 6	18.11	37	57.7	3	57.59	40	20.3	1
16	18.48	34	57.4	0	57.99	37	20.2	2
26	18.82	29	57.4	4	58.36	32	20.4	7
36	19.11		57.8		58.68		21.1	
Mittl. Ort	12.94		89.2		52.18		53.0	
	132)				133)			

1901	σ² Ursae maj. 5ᵐ.0. AR.		Decl. +		ϑ Hydrae. 4ᵐ.0. AR.		Decl. +		83 Cancri. 5ᵐ.8. AR.		Decl. +		40 Lyncis. 3ᵐ.3. AR.		Decl. +	
	9ʰ 1ᵐ		67° 31′		9ʰ 9ᵐ		2° 43′		9ʰ 13ᵐ		18° 7′		9ʰ 15ᵐ		34° 48′	
Jan. 0	45.34	47	52.4	17	14.86	22	45.2	18	29.50	24	16.8	10	3.74	27	24.1	0
10	45.81	36	54.1	21	15.08	18	43.4	16	29.74	19	15.8	7	4.01	22	24.1	3
20	46.17	25	56.2	23	15.26	13	41.8	13	29.93	15	15.1	4	4.23	17	24.4	6
30	46.42	12	58.5	25	15.39	8	40.5	12	30.08	9	14.7	2	4.40	10	25.0	8
Febr. 9	46.54	0	61.0	26	15.47	3	39.3	9	30.17	4	14.5	0	4.50	4	25.8	10
19	46.54	11	63.6	26	15.50	— 2	38.4	6	30.21	— 1	14.5	2	4.54	— 1	26.8	12
März 1	46.43	22	66.2	24	15.48	6	37.8	5	30.20	6	14.7	4	4.53	7	28.0	12
11	46.21	32	68.6	21	15.42	10	37.3	3	30.14	10	15.1	5	4.46	11	29.2	13
21	45.89	38	70.7	19	15.32	12	37.0	1	30.04	12	15.6	6	4.35	15	30.5	12
31	45.51	45	72.6	14	15.20	13	36.9	— 1	29.92	14	16.2	5	4.20	17	31.7	10
April 10	45.06	48	74.0	10	15.07	15	37.0	2	29.78	16	16.7	6	4.03	19	32.7	9
20	44.58	48	75.0	5	14.92	15	37.2	3	29.62	16	17.3	5	3.84	19	33.6	7
30	44.10	47	75.5	0	14.77	14	37.5	5	29.46	15	17.8	5	3.65	18	34.3	4
Mai 10	43.63	44	75.5	4	14.63	13	38.0	5	29.31	14	18.3	4	3.47	17	34.7	2
20	43.19	39	75.1	10	14.50	11	38.5	6	29.17	12	18.7	3	3.30	15	34.9	0
30	42.80	35	74.1	14	14.39	10	39.1	6	29.05	10	19.0	3	3.15	13	34.9	2
Juni 9	42.45	27	72.7	18	14.29	7	39.7	7	28.95	7	19.3	2	3.02	9	34.7	4
19	42.18	20	70.9	20	14.22	4	40.4	7	28.88	4	19.5	0	2.93	6	34.3	7
29	41.98	12	68.9	24	14.18	1	41.1	7	28.84	2	19.5	0	2.87	3	33.6	8
Juli 9	41.86	4	66.5	26	14.17	— 1	41.8	7	28.82	— 1	19.5	1	2.84	0	32.8	10
19	41.82	— 5	63.9	28	14.18	3	42.5	6	28.83	4	19.4	2	2.84	4	31.8	12
29	41.87	14	61.1	32	14.21	7	43.1	6	28.87	7	19.2	4	2.88	7	30.6	14
Aug. 8	[3]42.01	22	57.9	30	[7]14.28	10	43.7	5	28.94	10	18.8	5	2.95	12	29.2	15
18	42.23	29	54.9	29	14.38	12	44.2	2	[8]29.04	13	18.3	6	[9]3.07	14	27.7	16
28	42.52	37	52.0	29	14.50	16	44.4	1	29.17	16	17.7	8	3.21	18	26.1	16
Sept. 7	42.89	44	49.1	27	14.66	18	44.5	— 1	29.33	19	16.9	9	3.39	21	24.5	18
17	43.33	51	46.4	26	14.84	21	44.4	4	29.52	21	16.0	11	3.60	24	22.7	18
27	43.84	56	43.8	24	15.05	23	44.0	7	29.73	24	14.9	13	3.84	28	20.9	18
Oct. 7	44.40	62	41.4	20	15.28	26	43.3	10	29.97	27	13.6	14	4.12	30	19.1	18
17	45.02	66	39.4	17	15.54	28	42.3	12	30.24	30	12.2	15	4.42	33	17.3	17
27	45.68	69	37.7	14	15.82	30	41.1	14	30.54	31	10.7	16	4.75	35	15.6	17
Nov. 6	46.37	71	36.3	9	16.12	31	39.7	17	30.85	32	9.1	16	5.10	37	13.9	15
16	47.08	71	35.4	4	16.43	32	38.0	18	31.17	33	7.5	16	5.47	37	12.4	13
26	47.79	69	35.0	0	16.75	31	36.2	19	31.50	33	5.9	15	5.84	37	11.1	11
Dec. 6	48.48	65	35.0	6	17.06	29	34.3	19	31.83	31	4.4	14	6.21	35	10.0	8
16	49.13	59	35.6	11	17.35	27	32.4	19	32.14	29	3.0	13	6.56	33	9.2	5
26	49.72	52	36.7	15	17.62	24	30.5	18	32.43	26	1.7	10	6.89	29	8.7	2
36	50.24		38.2		17.86		28.7		32.69		0.7		7.18		8.5	
Mittl. Ort	41.41		72.1		12.84		55.2		27.44		30.1		1.51		40.7	
	415)				134)				417)				136)			

1901	α Hydrae. 2ᵐ.0. AR.		Decl. −		h Ursae maj. 3ᵐ.3. AR.		Decl. +		d Ursae maj. 4ᵐ.6. AR.		Decl. +		ϑ Ursae maj. 3ᵐ.0. AR.		Decl. +	
	9ʰ 22ᵐ		8° 13′		9ʰ 23ᵐ		63° 29′		9ʰ 25ᵐ		70° 15′		9ʰ 26ᵐ		52° 7′	
Jan. 0	45.33	22	53.0	23	46.89	45	20.7	13	48.16	57	35.2	16	16.95	34	22.6	8
10	45.55	19	55.3	22	47.34	36	22.0	18	48.73	46	36.8	20	17.29	28	23.4	12
20	45.74	14	57.5	20	47.70	27	23.8	21	49.19	33	38.8	23	17.57	22	24.6	15
30	45.88	8	59.5	18	47.97	16	25.9	23	49.52	20	41.1	26	17.79	14	26.1	17
Febr. 9	45.96	4	61.3	16	48.13	6	28.2	24	49.72	6	43.7	27	17.93	5	27.8	20
19	46.00	— 1	62.9	13	48.19	— 5	30.6	25	49.78	— 8	46.4	27	17.98	— 2	29.8	20
März 1	45.99	5	64.2	11	48.14	14	33.1	25	49.70	19	49.1	27	17.96	9	31.8	20
11	45.94	9	65.3	8	48.00	22	35.6	22	49.51	31	51.8	24	17.87	15	33.8	19
21	45.85	11	66.1	5	47.78	30	37.8	20	49.20	41	54.2	21	17.72	20	35.7	18
31	45.74	14	66.6	3	47.48	34	39.8	16	48.79	47	56.3	17	17.52	24	37.5	15
April 10	45.60	14	66.9	1	47.14	38	41.4	13	48.32	52	58.0	13	17.28	26	39.0	12
20	45.46	15	67.0	— 1	46.76	40	42.7	8	47.80	55	59.3	8	17.02	28	40.2	8
30	45.31	15	66.9	3	46.36	39	43.5	3	47.25	54	60.1	3	16.74	27	41.0	5
Mai 10	45.16	13	66.6	5	45.97	38	43.8	— 1	46.71	53	60.4	— 2	16.47	26	41.5	0
20	45.03	12	66.1	7	45.59	35	43.7	6	46.18	49	60.2	8	16.21	23	41.5	3
30	44.91	10	65.4	9	45.24	31	43.1	10	45.69	43	59.4	12	15.98	20	41.2	7
Juni 9	44.81	8	64.5	10	44.93	25	42.1	15	45.26	37	58.2	16	15.78	17	40.5	10
19	44.73	6	63.5	10	44.68	19	40.6	18	44.89	30	56.6	20	15.61	13	39.5	13
29	44.67	3	62.5	12	44.49	14	38.8	21	44.59	20	54.6	24	15.48	8	38.2	17
Juli 9	44.64	1	61.3	12	44.35	6	36.7	24	44.39	13	52.2	26	15.40	3	36.5	19
19	44.63	— 2	60.1	12	44.29	0	34.3	26	44.26	3	49.6	29	15.37	— 1	34.6	20
29	44.65	5	58.9	12	44.29	7	31.7	27	44.23	— 8	46.7	30	15.38	6	32.6	23
Aug. 8	44.70	8	57.7	11	44.36	15	29.0	31	44.31	17	43.7	34	15.44	12	30.3	27
18	(11) 44.78	10	56.6	9	(11) 44.51	21	25.9	29	(11) 44.48	24	40.3	32	(12) 15.56	16	27.6	24
28	44.88	14	55.7	6	44.72	27	23.0	29	44.72	34	37.1	31	15.72	20	25.2	25
Sept. 7	45.02	17	55.1	4	44.99	34	20.1	29	45.06	43	34.0	30	15.92	25	22.7	25
17	45.19	19	54.7	1	45.33	39	17.2	27	45.49	51	31.0	29	16.17	30	20.2	25
27	45.38	23	54.6	— 2	45.72	46	14.5	26	46.00	57	28.1	26	16.47	33	17.7	24
Oct. 7	45.61	25	54.8	6	46.18	51	11.9	23	46.57	65	25.5	24	16.80	38	15.3	22
17	45.86	28	55.4	9	46.69	55	9.6	20	47.22	71	23.1	20	17.18	42	13.1	20
27	46.14	30	56.3	13	47.24	59	7.6	17	47.93	75	21.1	17	17.60	44	11.1	18
Nov. 6	46.44	31	57.6	16	47.83	61	5.9	13	48.68	77	19.4	12	18.04	46	9.3	15
16	46.75	31	59.2	19	48.44	62	4.6	8	49.45	79	18.2	7	18.50	47	7.8	11
26	47.06	31	61.1	21	49.06	61	3.8	4	50.24	78	17.5	1	18.97	46	6.7	7
Dec. 6	47.37	30	63.2	22	49.67	59	3.4	— 2	51.02	75	17.4	— 3	19.43	45	6.0	3
16	47.67	28	65.4	23	50.26	54	3.6	6	51.77	69	17.7	9	19.88	42	5.7	— 1
26	47.95	24	67.7	23	50.80	49	4.2	12	52.46	62	18.6	14	20.30	39	5.8	5
36	48.19		70.0		51.29		5.4		53.08		20.0		20.69		6.3	
Mittl. Ort	43.35		45.5		43.68		41.5		44.26		56.6		14.36		42.4	
	138)				139)				418)				140)			

1901	10 Leon. min. 4ᵐ.8.				ε Leonis. 3ᵐ.0.				υ Ursae maj. 3ᵐ.6.				6 Sextantis. 6ᵐ.1.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. −	
	9ʰ 28ᵐ		36° 49′		9ʰ 40ᵐ		24° 13′		9ʰ 43ᵐ		59° 29′		9ʰ 46ᵐ		3° 46′	
Jan. 0	11.86ˢ	28	56.7″	0	15.96ˢ	27	33.4″	7	59.99ˢ	42	55.2″	9	16.62ˢ	25	53.7″	22
10	12.14	24	56.7	4	16.23	22	32.7	4	60.41	36	56.1	14	16.87	21	55.9	20
20	12.38	18	57.1	7	16.45	18	32.3	1	60.77	28	57.5	18	17.08	16	57.9	18
30	12.56	12	57.8	9	16.63	12	32.2	— 1	61.05	19	59.3	21	17.24	11	59.7	16
Febr. 9	12.68	6	58.7	11	16.75	7	32.3	3	61.24	9	61.4	23	17.35	6	61.3	13
19	12.74	0	59.8	13	16.82	2	32.6	6	61.33	0	63.7	23	17.41	2	62.6	11
März 1	12.74	5	61.1	14	16.84	— 4	33.2	8	61.33	9	66.0	24	17.43	— 3	63.7	9
11	12.69	11	62.5	14	16.80	7	34.0	8	61.24	16	68.4	23	17.40	6	64.6	6
21	12.58	14	63.9	13	16.73	11	34.8	9	61.08	23	70.7	21	17.34	10	65.2	4
31	12.44	17	65.2	12	16.62	14	35.7	9	60.85	28	72.8	18	17.24	11	65.6	2
April 10	12.27	18	66.4	10	16.48	15	36.6	8	60.57	31	74.6	14	17.13	13	65.8	0
20	12.09	19	67.4	8	16.33	16	37.4	7	60.26	33	76.0	10	17.00	14	65.8	2
30	11.90	19	68.2	5	16.17	15	38.1	7	59.93	34	77.0	6	16.86	14	65.6	4
Mai 10	11.71	18	68.7	3	16.02	15	38.8	5	59.59	33	77.6	2	16.72	13	65.2	5
20	11.53	16	69.0	1	15.87	13	39.3	3	59.26	31	77.8	— 3	16.59	12	64.7	6
30	11.37	14	69.1	— 2	15.74	12	39.6	2	58.95	28	77.5	7	16.47	10	64.1	7
Juni 9	11.23	11	68.9	5	15.62	9	39.8	0	58.67	23	76.8	11	16.37	9	63.4	8
19	11.12	7	68.4	7	15.53	7	39.8	1	58.44	19	75.7	15	16.28	7	62.6	9
29	11.05	4	67.7	9	15.46	4	39.7	3	58.25	14	74.2	18	16.21	4	61.7	9
Juli 9	11.01	1	66.8	11	15.42	2	39.4	4	58.11	9	72.4	21	16.17	2	60.8	10
19	11.00	— 2	65.7	13	15.40	— 1	39.0	6	58.02	3	70.3	24	16.15	0	59.8	9
29	11.02	6	64.4	14	15.41	5	38.4	7	57.99	— 3	67.9	26	16.15	2	58.9	9
Aug. 8	11.08	10	63.0	18	15.46	8	37.7	10	58.02	9	65.3	30	16.17	6	58.0	8
18	[12] 11.18	13	61.2	17	[15] 15.54	10	36.7	10	[16] 58.11	15	62.3	28	[17] 16.23	9	57.2	6
28	11.31	17	59.5	18	15.64	14	35.7	12	58.26	20	59.5	29	16.32	12	56.6	4
Sept. 7	11.48	20	57.7	19	15.78	16	34.5	14	58.46	26	56.6	29	16.44	14	56.2	1
17	11.68	23	55.8	19	15.94	20	33.1	14	58.72	32	53.7	28	16.58	18	56.1	— 1
27	11.91	27	53.9	20	16.14	23	31.7	16	59.04	38	50.9	27	16.76	21	56.2	4
Oct. 7	12.18	30	51.9	19	16.37	26	30.1	17	59.42	42	48.2	25	16.97	23	56.6	7
17	12.48	33	50.0	19	16.63	29	28.4	18	59.84	47	45.7	22	17.20	27	57.3	11
27	12.81	36	48.1	18	16.92	32	26.6	18	60.31	51	43.5	20	17.47	29	58.4	13
Nov. 6	13.17	37	46.3	16	17.24	33	24.8	17	60.82	53	41.5	16	17.76	30	59.7	16
16	13.54	38	44.7	14	17.57	34	23.1	17	61.35	55	39.9	12	18.06	32	61.3	19
26	13.92	38	43.3	12	17.91	34	21.4	16	61.90	55	38.7	8	18.38	32	63.2	20
Dec. 6	14.30	37	42.1	9	18.25	34	19.8	14	62.45	54	37.9	2	18.70	31	65.2	21
16	14.67	34	41.2	5	18.59	32	18.4	11	62.99	51	37.7	— 2	19.01	29	67.3	22
26	15.01	31	40.7	1	18.91	28	17.3	9	63.50	46	37.9	8	19.30	26	69.5	21
36	15.32		40.6		19.19		16.4		63.96		38.7		19.56		71.6	
Mittl. Ort	9.67		74.2		13.99		48.7		57.29		76.7		14.75		45.4	
	419)				142)				143)				572)			

1901	Gr. 1586. 6ᵐ.0.				π Leonis. 5ᵐ.0.				η Leonis. 3ᵐ.3.				α Leonis. 1ᵐ.3.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	9ʰ 49ᵐ		73° 20′		9ʰ 54ᵐ		8° 30′		10ʰ 1ᵐ		17° 14′		10ʰ 3ᵐ		12° 26′	
Jan. 0	36.30	70	38.8	15	60.75	26	57.9	16	58.09	27	29.7	12	7.79	27	51.6	15
10	37.00	58	40.3	19	61.01	22	56.3	14	58.36	24	28.5	10	8.06	23	50.1	11
20	37.58	45	42.2	23	61.23	18	54.9	11	58.60	19	27.5	6	8.29	18	49.0	9
30	38.03	29	44.5	26	61.41	13	53.8	9	58.79	14	26.9	3	8.47	14	48.1	7
Febr. 9	38.32	14	47.1	28	61.54	7	52.9	6	58.93	9	26.6	1	8.61	9	47.4	4
19	38.46	2	49.9	29	61.61	3	52.3	3	59.02	3	26.5	1	8.70	4	47.0	1
März 1	38.44	17	52.8	28	61.64	2	52.0	2	59.05	1	26.6	4	8.74	1	46.9	1
11	38.27	31	55.6	26	61.62	5	51.8	1	59.04	5	27.0	5	8.73	5	47.0	2
21	37.96	43	58.2	24	61.57	9	51.9	2	58.99	8	27.5	7	8.68	8	47.2	4
31	37.53	52	60.6	20	61.48	11	52.1	3	58.91	11	28.2	7	8.60	11	47.6	5
April 10	37.01	59	62.6	15	61.37	12	52.4	4	58.80	13	28.9	7	8.49	12	48.1	6
20	36.42	64	64.1	11	61.25	14	52.8	5	58.67	14	29.6	7	8.37	14	48.7	6
30	35.78	65	65.2	6	61.11	14	53.3	5	58.53	14	30.3	7	8.23	14	49.3	6
Mai 10	35.13	64	65.8	0	60.97	13	53.8	6	58.39	14	31.0	6	8.09	13	49.9	6
20	34.49	62	65.8	6	60.84	12	54.4	5	58.25	13	31.6	5	7.96	12	50.5	6
30	33.87	57	65.2	10	60.72	11	54.9	6	58.12	11	32.1	4	7.84	11	51.1	5
Juni 9	33.30	50	64.2	15	60.61	9	55.5	5	58.01	10	32.5	3	7.73	10	51.6	4
19	32.80	42	62.7	19	60.52	7	56.0	5	57.91	8	32.8	2	7.63	7	52.0	3
29	32.38	33	60.8	23	60.45	4	56.5	4	57.83	5	33.0	1	7.56	6	52.3	3
Juli 9	32.05	23	58.5	26	60.41	3	56.9	4	57.78	3	33.1	1	7.50	3	52.6	2
19	31.82	14	55.9	29	60.38	0	57.3	2	57.75	1	33.0	2	7.47	1	52.8	0
29	31.68	2	53.0	31	60.38	3	57.5	2	57.74	2	32.8	3	7.46	2	52.8	0
Aug. 8	31.66	9	49.9	32	60.41	5	57.7	1	57.76	5	32.5	5	7.48	4	52.8	2
18	31.75	21	46.7	36	60.46	8	57.8	2	57.81	8	32.0	7	7.52	8	52.6	4
28	[18] 31.96	31	43.1	34	[19] 60.54	11	57.6	3	[21] 57.89	11	31.3	8	[21] 7.60	10	52.2	6
Sept. 7	32.27	41	39.7	32	60.65	15	57.3	5	58.00	14	30.5	11	7.70	14	51.6	7
17	32.68	52	36.5	31	60.80	17	56.8	8	58.14	17	29.4	12	7.84	16	50.9	10
27	33.20	59	33.4	30	60.97	20	56.0	10	58.31	20	28.2	14	8.00	20	49.9	12
Oct. 7	33.79	68	30.4	27	61.17	24	55.0	12	58.51	24	26.8	15	8.20	23	48.7	14
17	34.47	78	27.7	23	61.41	26	53.8	14	58.75	27	25.3	17	8.43	26	47.3	15
27	35.25	83	25.4	20	61.67	29	52.4	16	59.02	29	23.6	18	8.69	29	45.8	17
Nov. 6	36.08	88	23.4	15	61.96	30	50.8	18	59.31	31	21.8	19	8.98	31	44.1	18
16	36.96	90	21.9	10	62.26	32	49.0	18	59.62	33	19.9	19	9.29	32	42.3	19
26	37.86	92	20.9	4	62.58	33	47.2	19	59.95	33	18.0	18	9.61	33	40.4	19
Dec. 6	38.78	88	20.5	1	62.91	31	45.3	19	60.28	33	16.2	17	9.94	32	38.5	18
16	39.66	83	20.6	7	63.22	30	43.4	18	60.61	32	14.5	15	10.26	31	36.7	17
26	40.49	75	21.3	11	63.52	28	41.6	17	60.93	29	13.0	13	10.57	28	35.0	15
36	41.24		22.4		63.80		39.9		61.22		11.7		10.85		33.5	
Mittl. Ort	32.40		61.8		58.92		69.5		56.28		43.6		6.00		64.3	
	421)				423)				145)				146)			

1901	λ Hydrae. $4^m.0$				λ Ursae maj. $3^m.3$				ζ Leonis. $3^m.0$				μ Ursae maj. $3^m.0$			
	AR.		Decl. −		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$10^h\ 5^m$		$11°\ 51'$		$10^h\ 11^m$		$43°\ 23'$		$10^h\ 11^m$		$23°\ 54'$		$10^h\ 16^m$		$41°\ 59'$	
Jan. 0	47.51	26	58.6	25	9.66	35	70.9	0	12.89	29	23.5	9	27.91	36	30.8	1
10	47.77	22	61.1	23	10.01	30	70.9	4	13.18	25	22.6	6	28.27	29	30.7	— 3
20	47.99	17	63.4	23	10.31	24	71.3	8	13.43	20	22.0	3	28.56	24	31.0	7
30	48.16	13	65.7	21	10.55	19	72.1	12	13.63	16	21.7	0	28.80	19	31.7	10
Febr. 9	48.29	8	67.8	18	10.74	12	73.3	14	13.79	10	21.7	3	28.99	12	32.7	14
19	48.37	4	69.6	16	10.86	5	74.7	17	13.89	5	22.0	6	29.11	6	34.1	16
März 1	48.41	— 1	71.2	14	10.91	— 2	76.4	18	13.94	0	22.6	8	29.17	— 1	35.7	17
11	48.40	5	72.6	11	10.89	6	78.2	18	13.94	5	23.4	9	29.16	6	37.4	18
21	48.35	8	73.7	8	10.83	11	80.0	18	13.89	8	24.3	9	29.10	10	39.2	18
31	48.27	11	74.5	6	10.72	16	81.8	16	13.81	11	25.2	10	29.00	15	41.0	16
April 10	48.16	12	75.1	3	10.56	19	83.4	15	13.70	13	26.2	10	28.85	17	42.6	15
20	48.04	14	75.4	0	10.37	20	84.9	13	13.57	15	27.2	9	28.68	19	44.1	13
30	47.90	13	75.4	1	10.17	20	86.2	9	13.42	15	28.1	8	28.49	20	45.4	9
Mai 10	47.77	14	75.3	4	9.97	21	87.1	6	13.27	14	28.9	7	28.29	20	46.3	7
20	47.63	12	74.9	5	9.76	20	87.7	3	13.13	14	29.6	5	28.09	19	47.0	4
30	47.51	12	74.4	7	9.56	18	88.0	— 1	12.99	13	30.1	3	27.90	17	47.4	0
Juni 9	47.39	10	73.7	10	9.38	15	87.9	3	12.86	10	30.4	2	27.73	15	47.4	3
19	47.29	8	72.7	10	9.23	13	87.6	7	12.76	9	30.6	0	27.58	13	47.1	6
29	47.21	7	71.7	12	9.10	10	86.9	10	12.67	7	30.6	2	27.45	11	46.5	9
Juli 9	47.14	4	70.5	12	9.00	7	85.9	13	12.60	4	30.4	4	27.34	7	45.6	12
19	47.10	2	69.3	12	8.93	3	84.6	15	12.56	1	30.0	5	27.27	4	44.4	14
29	47.08	0	68.1	13	8.90	0	83.1	18	12.55	— 1	29.5	7	27.23	0	43.0	17
Aug. 8	47.08	3	66.8	12	8.90	3	81.3	20	12.56	3	28.8	9	27.23	3	41.3	19
18	47.11	7	65.6	11	8.93	8	79.3	23	12.59	8	27.9	12	27.26	7	39.4	23
28	[22] 47.18	10	64.5	8	[24] 9.01	12	77.0	23	[24] 12.67	10	26.7	12	[25] 27.33	11	37.1	22
Sept. 7	47.28	12	63.7	6	9.13	16	74.7	24	12.77	13	25.5	14	27.44	15	34.9	23
17	47.40	16	63.1	3	9.29	20	72.3	24	12.90	17	24.1	16	27.59	19	32.6	25
27	47.56	20	62.8	0	9.49	24	69.9	25	13.07	20	22.5	17	27.78	23	30.1	24
Oct. 7	47.76	23	62.8	3	9.73	29	67.4	25	13.27	24	20.8	19	28.01	28	27.7	25
17	47.99	26	63.1	8	10.02	32	64.9	23	13.51	27	18.9	19	28.29	31	25.2	24
27	48.25	28	63.9	11	10.34	36	62.6	23	13.78	30	17.0	20	28.60	35	22.8	22
Nov. 6	48.53	31	65.0	15	10.70	38	60.3	20	14.08	32	15.0	19	28.95	37	20.6	21
16	48.84	32	66.5	18	11.08	40	58.3	17	14.40	34	13.1	19	29.32	39	18.5	18
26	49.16	32	68.3	20	11.48	42	56.6	15	14.74	35	11.2	18	29.71	41	16.7	15
Dec. 6	49.48	32	70.3	23	11.90	41	55.1	11	15.09	34	9.4	16	30.12	40	15.2	12
16	49.80	30	72.6	23	12.31	39	54.0	6	15.43	33	7.8	13	30.52	39	14.0	7
26	50.10	27	74.9	24	12.70	36	53.4	2	15.76	30	6.5	11	30.91	36	13.3	4
36	50.37		77.3		13.06		53.2		16.06		5.4		31.27		12.9	
Mittl. Ort	45.69		52.7		7.71		91.1		11.11		39.3		26.02		50.8	
	573)				147)				148)				149)			

1901	30 H. Urs. maj. 5ᵐ.0. AR.		Decl. +		μ Hydrae. 4ᵐ.0. AR.		Decl. —		31 Leon. min. 4ᵐ.3. AR.		Decl. +		Lac. α Antliae. 4ᵐ.2. AR.		Decl. —	
	$10^h\ 16^m$		66° 3′		$10^h\ 21^m$		16° 19′		$10^h\ 22^m$		37° 12′		$10^h\ 22^m$		30° 33′	
Jan. 0	62.36	57	38.4	9	19.89	28	55.6	26	11.43	33	34.0	4	39.11	28	51.1	29
10	62.93	48	39.3	14	20.17	23	58.2	25	11.76	29	33.6	0	39.39	25	54.0	31
20	63.41	39	40.7	19	20.40	19	60.7	25	12.05	24	33.6	4	39.64	20	57.1	30
30	63.80	29	42.6	22	20.59	15	63.2	23	12.29	19	34.0	8	39.84	15	60.1	29
Febr. 9	64.09	18	44.8	25	20.74	10	65.5	21	12.48	12	34.8	11	39.99	10	63.0	29
19	64.27	6	47.3	26	20.84	4	67.6	19	12.60	6	35.9	13	40.09	4	65.9	26
März 1	64.33	— 4	49.9	27	20.88	1	69.5	16	12.66	1	37.2	15	40.13	0	68.5	24
11	64.29	15	52.6	26	20.89	— 4	71.1	14	12.67	— 5	38.7	16	40.13	5	70.9	21
21	64.14	24	55.2	25	20.85	7	72.5	11	12.62	9	40.3	16	40.08	8	73.0	18
31	63.90	31	57.7	22	20.78	10	73.6	8	12.53	12	41.9	15	40.00	11	74.8	14
April 10	63.59	36	59.9	18	20.68	11	74.4	5	12.41	15	43.4	14	39.89	14	76.2	11
20	63.23	41	61.7	14	20.57	13	74.9	3	12.26	17	44.8	12	39.75	15	77.3	8
30	62.82	42	63.1	10	20.44	14	75.2	0	12.09	18	46.0	10	39.60	15	78.1	4
Mai 10	62.40	43	64.1	5	20.30	13	75.2	3	11.91	18	47.0	8	39.45	16	78.5	1
20	61.97	43	64.6	0	20.17	13	74.9	4	11.73	18	47.8	4	39.29	16	78.6	— 3
30	61.54	40	64.6	5	20.04	12	74.5	7	11.55	16	48.2	2	39.13	15	78.3	7
Juni 9	61.14	36	64.1	10	19.92	11	73.8	9	11.39	14	48.4	— 1	38.98	14	77.6	9
19	60.78	31	63.1	14	19.81	10	72.9	11	11.25	11	48.3	4	38.84	12	76.7	13
29	60.47	26	61.7	19	19.71	8	71.8	12	11.14	10	47.9	7	38.72	11	75.4	15
Juli 9	60.21	20	59.8	22	19.63	5	70.6	13	11.04	7	47.2	10	38.61	8	73.9	17
19	60.01	13	57.6	25	19.58	4	69.3	14	10.97	4	46.2	12	38.53	5	72.2	19
29	59.88	6	55.1	28	19.54	1	67.9	14	10.93	1	45.0	14	38.48	3	70.3	20
Aug. 8	59.82	— 1	52.3	29	19.53	— 1	66.5	14	10.92	— 2	43.6	16	38.45	0	68.3	20
18	59.83	8	49.4	34	19.54	5	65.1	14	10.94	7	42.0	20	38.45	4	66.3	21
28	[25] 59.91	16	46.0	32	[26] 19.59	8	63.7	11	[27] 11.01	10	40.0	20	[27] 38.49	8	64.2	18
Sept. 7	60.07	24	42.8	33	19.67	11	62.6	8	11.11	14	38.0	22	38.57	11	62.4	16
17	60.31	31	39.5	32	19.78	15	61.8	6	11.25	17	35.8	22	38.68	16	60.8	13
27	60.62	38	36.3	31	19.93	19	61.2	2	11.42	21	33.6	23	38.84	19	59.5	10
Oct. 7	61.00	45	33.2	29	20.12	22	61.0	— 1	11.63	25	31.3	24	39.03	24	58.5	5
17	61.45	52	30.3	26	20.34	26	61.1	5	11.88	29	28.9	23	39.27	28	58.0	0
27	61.97	57	27.7	24	20.60	28	61.6	10	12.17	33	26.6	23	39.55	31	58.0	5
Nov. 6	62.54	62	25.3	20	20.88	30	62.6	13	12.50	35	24.3	21	39.86	33	58.5	9
16	63.16	65	23.3	15	21.18	32	63.9	17	12.85	37	22.2	19	40.19	35	59.4	15
26	63.81	66	21.8	10	21.50	34	65.6	20	13.22	38	20.3	16	40.54	35	60.9	19
Dec. 6	64.47	66	20.8	5	21.84	32	67.6	22	13.60	39	18.7	14	40.89	35	62.8	22
16	65.13	63	20.3	— 1	22.16	31	69.8	24	13.99	37	17.3	10	41.24	33	65.0	26
26	65.76	59	20.4	6	22.47	29	72.2	25	14.36	34	16.3	5	41.57	30	67.6	28
36	66.35		21.0		22.76		74.7		14.70		15.8		41.87		70.4	
Mittl. Ort	59.78		62.1		18.11		51.2		9.64		53.1		37.21		50.8	
	424)				574)				426)				575)			

1901	36 Ursae maj. $5^m.0$				9 H. Draconis. $4^m.6$				33 Sextantis. $6^m.4$				42 Leon. min. $5^m.0$			
	AR.	Diff.	Decl. +	Diff.	AR.	Diff.	Decl. +	Diff.	AR.	Diff.	Decl. —	Diff.	AR.	Diff.	Decl. +	Diff.
	$10^h\ 24^m$		$56°\ 28'$		$10^h\ 26^m$		$76°\ 12'$		$10^h\ 36^m$		$1°\ 13'$		$10^h\ 40^m$		$31°\ 11'$	
Jan. 0	$19^s.74$	44	$55''.2$	4	$44^s.66$	91	$58''.3$	12	$23^s.52$	28	$24''.2$	21	$23^s.28$	32	$56''.3$	8
10	20.18	38	55.6	9	45.57	78	59.5	16	23.80	25	26.3	19	23.60	29	55.5	4
20	20.56	32	56.5	14	46.35	64	61.1	22	24.05	21	28.2	18	23.89	24	55.1	0
30	20.88	24	57.9	17	46.99	48	63.3	25	24.26	16	30.0	15	24.13	19	55.1	3
Febr. 9	21.12	16	59.6	21	47.47	29	65.8	27	24.42	11	31.5	13	24.32	14	55.4	7
19	21.28	7	61.7	23	47.76	11	68.5	30	24.53	7	32.8	10	24.46	8	56.1	10
März 1	21.35	0	64.0	23	47.87	7	71.5	30	24.60	2	33.8	7	24.54	3	57.1	12
11	21.35	9	66.3	24	47.80	26	74.5	29	24.62	1	34.5	5	24.57	2	58.3	13
21	21.26	14	68.7	23	47.54	40	77.4	26	24.61	5	35.0	3	24.55	6	59.6	14
31	21.12	21	71.0	21	47.14	54	80.0	24	24.56	8	35.3	1	24.49	9	61.0	15
April 10	20.91	25	73.1	18	46.60	65	82.4	20	24.48	10	35.4	1	24.40	12	62.5	13
20	20.66	28	74.9	15	45.95	72	84.4	15	24.38	11	35.3	2	24.28	15	63.8	12
30	20.38	29	76.4	11	45.23	78	85.9	10	24.27	12	35.1	3	24.13	16	65.0	11
Mai 10	20.09	29	77.5	6	44.45	79	86.9	4	24.15	13	34.8	5	23.97	15	66.1	9
20	19.80	29	78.1	3	43.66	79	87.3	1	24.02	12	34.3	6	23.82	16	67.0	6
30	19.51	27	78.4	2	42.87	75	87.2	6	23.90	11	33.7	6	23.66	14	67.6	4
Juni 9	19.24	24	78.2	7	42.12	70	86.6	11	23.79	10	33.1	7	23.52	13	68.0	1
19	19.00	21	77.5	10	41.42	63	85.5	17	23.69	9	32.4	8	23.39	12	68.1	1
29	18.79	18	76.5	14	40.79	53	83.8	20	23.60	7	31.6	7	23.27	10	68.0	3
Juli 9	18.61	14	75.1	18	40.26	43	81.8	25	23.53	6	30.9	8	23.17	7	67.7	6
19	18.47	9	73.3	21	39.83	32	79.3	28	23.47	4	30.1	7	23.10	5	67.1	8
29	18.38	4	71.2	23	39.51	21	76.5	31	23.43	1	29.4	6	23.05	2	66.3	11
Aug. 8	18.34	1	68.9	26	39.30	7	73.4	32	23.42	1	28.8	6	23.03	0	65.2	13
18	18.35	7	66.3	30	39.23	6	70.2	35	23.43	3	28.2	4	23.03	4	63.9	15
28	18.42	11	63.3	29	39.29	20	66.7	38	23.46	7	27.8	2	23.07	8	62.4	19
Sept. 7	18.53	17	60.4	30	39.49	32	62.9	35	23.53	9	27.6	0	23.15	10	60.5	18
17	18.70	23	57.4	30	39.81	45	59.4	35	23.62	14	27.6	3	23.25	14	58.7	21
27	18.93	28	54.4	29	40.26	58	55.9	33	23.76	17	27.9	5	23.39	19	56.6	21
Oct. 7	19.21	33	51.5	29	40.84	70	52.6	30	23.93	20	28.4	8	23.58	22	54.5	22
17	19.54	39	48.6	26	41.54	80	49.6	28	24.13	24	29.2	11	23.80	26	52.3	23
27	19.93	43	46.0	24	42.34	90	46.8	24	24.37	27	30.3	14	24.06	29	50.0	23
Nov. 6	20.36	47	43.6	21	43.24	97	44.4	20	24.64	29	31.7	17	24.35	33	47.7	22
16	20.83	49	41.5	18	44.21	103	42.4	15	24.93	31	33.4	18	24.68	34	45.5	21
26	21.32	51	39.7	14	45.24	105	40.9	9	25.24	32	35.2	20	25.02	36	43.4	19
Dec. 6	21.83	51	38.3	8	46.29	106	40.0	3	25.56	32	37.2	22	25.38	37	41.5	16
16	22.34	50	37.5	4	47.35	102	39.7	2	25.88	32	39.4	21	25.75	35	39.9	13
26	22.84	47	37.1	1	48.37	94	39.9	9	26.20	29	41.5	20	26.10	34	38.6	10
36	23.31		37.2		49.31		40.8		26.49		43.5		26.44		37.6	
Mittl. Ort	17.66		77.9		41.25		83.1		21.88		15.6		21.66		74.3	
	427)				150)				576)				431)			

1901	*l* Leonis. $5^m.1$.				β Ursae maj. $2^m.3$.				α Ursae maj. $2^m.0$.				χ Leonis. $4^m.8$.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$10^h\ 44^m$		$11°\ 3'$		$10^h\ 55^m$		$56°\ 54'$		$10^h\ 57^m$		$62°\ 16'$		$10^h\ 59^m$		$7°\ 51'$	
Jan. 0	4.81	30	56.3	17	53.92	48	24.0	1	39.12	54	43.5	3	56.08	30	65.7	18
10	5.11	26	54.6	13	54.40	42	24.1	7	39.66	48	43.8	8	56.38	27	63.9	16
20	5.37	22	53.3	11	54.82	36	24.8	11	40.14	42	44.6	14	56.65	22	62.3	13
30	5.59	17	52.2	9	55.18	29	25.9	16	40.56	33	46.0	18	56.87	19	61.0	10
Febr. 9	5.76	13	51.3	5	55.47	22	27.5	20	40.89	24	47.8	21	57.06	14	60.0	8
19	5.89	8	50.8	3	55.69	13	29.5	22	41.13	14	49.9	25	57.20	9	59.2	5
März 1	5.97	3	50.5	0	55.82	4	31.7	25	41.27	5	52.4	26	57.29	5	58.7	2
11	6.00	0	50.5	2	55.86	—3	34.2	25	41.32	—4	55.0	27	57.34	1	58.5	—1
21	6.00	5	50.7	4	55.83	10	36.7	24	41.28	13	57.7	26	57.35	—3	58.6	2
31	5.95	7	51.1	6	55.73	17	39.1	23	41.15	20	60.3	24	57.32	6	58.8	4
April 10	5.88	10	51.7	6	55.56	21	41.4	21	40.95	26	62.7	22	57.26	8	59.2	5
20	5.78	11	52.3	7	55.35	25	43.5	18	40.69	30	64.9	19	57.18	10	59.7	6
30	5.67	12	53.0	7	55.10	28	45.3	15	40.39	34	66.8	15	57.08	11	60.3	6
Mai 10	5.55	13	53.7	6	54.82	29	46.8	10	40.05	36	68.3	10	56.97	12	60.9	7
20	5.42	12	54.3	7	54.53	29	47.8	6	39.69	36	69.3	5	56.85	12	61.6	7
30	5.30	11	55.0	6	54.24	29	48.4	1	39.33	35	69.8	1	56.73	12	62.3	6
Juni 9	5.19	11	55.6	5	53.95	27	48.5	—3	38.98	34	69.9	—5	56.61	10	62.9	6
19	5.08	9	56.1	5	53.68	24	48.2	7	38.64	30	69.4	9	56.51	10	63.5	6
29	4.99	8	56.6	3	53.44	21	47.5	12	38.34	27	68.5	13	56.41	8	64.1	4
Juli 9	4.91	6	56.9	3	53.23	18	46.3	16	38.07	23	67.2	17	56.33	7	64.5	4
19	4.85	4	57.2	1	53.05	14	44.7	19	37.84	18	65.5	21	56.26	6	64.9	3
29	4.81	2	57.3	0	52.91	10	42.8	22	37.66	13	63.4	25	56.20	4	65.2	2
Aug. 8	4.79	0	57.3	1	52.81	5	40.6	25	37.53	8	60.9	27	56.16	1	65.4	0
18	4.79	3	57.2	3	52.76	1	38.1	27	37.45	2	58.2	30	56.15	—2	65.4	1
28	4.82	7	56.9	6	52.75	—6	35.4	33	37.43	—6	55.2	34	56.17	5	65.3	4
Sept. 7	[2] 4.89	10	56.3	7	[5] 52.81	11	32.1	31	[5] 37.49	11	51.8	33	[6] 56.22	7	64.9	6
17	4.99	12	55.6	10	52.92	17	29.0	31	37.60	19	48.5	33	56.29	11	64.3	8
27	5.11	16	54.6	12	53.09	23	25.9	31	37.79	25	45.2	33	56.40	14	63.5	10
Oct. 7	5.27	20	53.4	14	53.32	29	22.8	31	38.04	33	41.9	32	56.54	19	62.5	13
17	5.47	24	52.0	16	53.61	34	19.7	30	38.37	38	38.7	30	56.73	22	61.2	14
27	5.71	26	50.4	18	53.95	40	16.7	27	38.75	45	35.7	28	56.95	25	59.8	17
Nov. 6	5.97	29	48.6	19	54.35	44	14.0	25	39.20	51	32.9	25	57.20	28	58.1	19
16	6.26	31	46.7	20	54.79	48	11.5	21	39.71	54	30.4	21	57.48	31	56.2	20
26	6.57	33	44.7	20	55.27	51	9.4	17	40.25	57	28.3	17	57.79	32	54.2	20
Dec. 6	6.90	33	42.7	20	55.78	51	7.7	13	40.82	59	26.6	11	58.11	33	52.2	21
16	7.23	32	40.7	19	56.29	51	6.4	7	41.41	58	25.5	6	58.44	32	50.1	20
26	7.55	30	38.8	17	56.80	48	5.7	2	41.99	56	24.9	0	58.76	30	48.1	18
36	7.85		37.1		57.28		5.5		42.55		24.9		59.06		46.3	
Mittl. Ort	3.25		68.6		52.24		47.6		37.36		67.9		54.60		77.0	
	432)				153)				154)				434)			

1901	ψ Ursae maj. $3^m.1$. AR.		Decl. +		β Crateris. $4^m.0$. AR.		Decl. —		δ Leonis. $2^m.3$. AR.		Decl. +		ϑ Leonis. $3^m.3$. AR.		Decl. +	
	$11^h\ 4^m$		$45°\ 1'$		$11^h\ 6^m$		$22°\ 17'$		$11^h\ 8^m$		$21°\ 3'$		$11^h\ 9^m$		$15°\ 57'$	
Jan. 0	7.49	39	46.5	4	48.84	31	8.9	26	52.08	32	43.2	13	4.13	31	61.3	15
10	7.88	35	46.1	— 1	49.15	27	11.5	27	52.40	29	41.9	11	4.44	28	59.8	13
20	8.23	31	46.2	5	49.42	24	14.2	26	52.69	25	40.8	7	4.72	24	58.5	9
30	8.54	25	46.7	10	49.66	19	16.8	26	52.94	20	40.1	3	4.96	20	57.6	6
Febr. 9	8.79	18	47.7	13	49.85	15	19.4	24	53.14	16	39.8	0	5.16	16	57.0	3
19	8.97	12	49.0	17	50.00	10	21.8	22	53.30	11	39.8	3	5.32	10	56.7	0
März 1	9.09	6	50.7	19	50.10	5	24.0	20	53.41	6	40.1	6	5.42	6	56.7	3
11	9.15	0	52.6	21	50.15	1	26.0	18	53.47	1	40.7	8	5.48	2	57.0	5
21	9.15	6	54.7	21	50.16	— 3	27.8	15	53.48	— 2	41.5	10	5.50	— 2	57.5	7
31	9.09	10	56.8	20	50.13	6	29.3	12	53.46	6	42.5	11	5.48	6	58.2	8
April 10	8.99	14	58.8	19	50.07	8	30.5	10	53.40	9	43.6	11	5.42	8	59.0	9
20	8.85	17	60.7	17	49.99	10	31.5	6	53.31	10	44.7	11	5.34	10	59.9	9
30	8.68	19	62.4	14	49.89	12	32.1	4	53.21	12	45.8	10	5.24	12	60.8	9
Mai 10	8.49	20	63.8	11	49.77	12	32.5	1	53.09	13	46.8	9	5.12	12	61.7	9
20	8.29	21	64.9	8	49.65	13	32.6	— 2	52.96	13	47.7	8	5.00	12	62.6	7
30	8.08	20	65.7	4	49.52	13	32.4	5	52.83	12	48.5	7	4.88	12	63.3	7
Juni 9	7.88	19	66.1	1	49.39	12	31.9	7	52.71	12	49.2	5	4.76	11	64.0	6
19	7.69	17	66.2	— 4	49.27	12	31.2	9	52.59	11	49.7	3	4.65	11	64.6	4
29	7.52	15	65.8	7	49.15	11	30.3	11	52.48	10	50.0	1	4.54	9	65.0	2
Juli 9	7.37	13	65.1	10	49.04	9	29.2	13	52.38	8	50.1	— 1	4.45	8	65.2	1
19	7.24	10	64.1	14	48.95	7	27.9	14	52.30	7	50.0	3	4.37	6	65.3	0
29	7.14	7	62.7	16	48.88	6	26.5	15	52.23	4	49.7	5	4.31	4	65.3	2
Aug. 8	7.07	4	61.1	20	48.82	3	25.0	15	52.19	2	49.2	7	4.27	2	65.1	5
18	7.03	0	59.1	22	48.79	1	23.5	14	52.17	0	48.5	9	4.25	0	64.6	6
28	7.03	4	56.9	25	48.78	— 3	22.1	14	52.17	3	47.6	11	4.25	3	64.0	8
Sept. 7	7.07	9	54.4	28	48.81	8	20.7	13	52.20	8	46.5	15	4.28	8	63.2	11
17	7.16	13	51.6	27	48.89	10	19.4	10	52.28	11	45.0	16	4.36	10	62.1	13
27	7.29	17	48.9	28	48.99	15	18.4	6	52.39	13	43.4	17	4.46	14	60.8	15
Oct. 7	7.46	23	46.1	28	49.14	19	17.8	3	52.52	19	41.7	19	4.60	18	59.3	16
17	7.69	27	43.3	28	49.33	23	17.5	— 1	52.71	22	39.8	21	4.78	22	57.7	19
27	7.96	31	40.5	27	49.56	26	17.6	5	52.93	26	37.7	22	5.00	25	55.8	20
Nov. 6	8.27	36	37.8	25	49.82	30	18.1	9	53.19	29	35.5	22	5.25	28	53.8	21
16	8.63	38	35.3	23	50.12	33	19.0	13	53.48	31	33.3	21	5.53	31	51.7	21
26	9.01	41	33.0	20	50.45	34	20.3	18	53.79	34	31.2	21	5.84	33	49.6	21
Dec. 6	9.42	42	31.0	16	50.79	34	22.1	20	54.13	34	29.1	20	6.17	33	47.5	20
16	9.84	42	29.4	11	51.13	33	24.1	23	54.47	34	27.1	18	6.50	33	45.5	19
26	10.26	40	28.3	7	51.46	32	26.4	25	54.81	32	25.3	15	6.83	32	43.6	16
36	10.66		27.6		51.78		28.9		55.13		23.8		7.15		42.0	
Mittl. Ort	6.02		68.1		47.23		7.6		50.68		58.5		2.72		75.0	
			155)				578)				156)				157)	

1901	ν Ursae maj. 3^m.3. AR.		Decl. +		δ Crateris. 3^m.3. AR.		Decl. −		σ Leonis. 4^m.1. AR.		Decl. +		Gr. 1771. 6^m.1. AR.		Decl. +	
	11^h 13^m		33° 37′		11^h 14^m		14° 14′		11^h 16^m		6° 33′		11^h 16^m		64° 51′	
Jan. 0	9.52	35	45.9	9	24.88	30	38.3	24	3.31	31	68.3	19	59.67	60	55.1	1
10	9.87	31	45.0	5	25.18	28	40.7	23	3.62	27	66.4	17	60.27	54	55.2	7
20	10.18	28	44.5	1	25.46	24	43.0	23	3.89	24	64.7	14	60.81	48	55.9	13
30	10.46	23	44.4	3	25.70	20	45.3	22	4.13	20	63.3	11	61.29	39	57.2	18
Febr. 9	10.69	17	44.7	8	25.90	15	47.5	20	4.33	16	62.2	9	61.68	29	59.0	22
19	10.86	12	45.5	10	26.05	10	49.5	18	4.49	11	61.3	5	61.97	20	61.2	25
März 1	10.98	7	46.5	13	26.15	6	51.3	16	4.60	7	60.8	3	62.17	9	63.7	27
11	11.05	2	47.8	15	26.21	2	52.9	13	4.67	2	60.5	1	62.26	1	66.4	28
21	11.07	3	49.3	16	26.23	1	54.2	10	4.69	1	60.4	2	62.25	11	69.2	27
31	11.04	7	50.9	17	26.22	5	55.2	8	4.68	5	60.6	3	62.14	18	71.9	26
April 10	10.97	10	52.6	16	26.17	7	56.0	6	4.63	7	60.9	5	61.96	26	74.5	24
20	10.87	13	54.2	15	26.10	9	56.6	3	4.56	9	61.4	6	61.70	32	76.9	21
30	10.74	14	55.7	13	26.01	10	56.9	1	4.47	10	62.0	6	61.38	36	79.0	17
Mai 10	10.60	16	57.0	12	25.91	12	57.0	2	4.37	11	62.6	7	61.02	39	80.7	12
20	10.44	15	58.2	9	25.79	12	56.8	3	4.26	11	63.3	7	60.63	40	81.9	7
30	10.29	16	59.1	6	25.67	11	56.5	5	4.15	11	64.0	6	60.23	40	82.6	3
Juni 9	10.13	15	59.7	3	25.56	11	56.0	7	4.04	11	64.6	7	59.83	38	82.9	3
19	9.98	13	60.0	1	25.45	11	55.3	8	3.93	10	65.3	6	59.45	37	82.6	7
29	9.85	12	60.1	3	25.34	10	54.5	10	3.83	9	65.9	5	59.08	33	81.9	12
Juli 9	9.73	11	59.8	5	25.24	9	53.5	10	3.74	8	66.4	5	58.75	29	80.7	17
19	9.62	8	59.3	9	25.15	7	52.5	12	3.66	7	66.9	4	58.46	25	79.0	20
29	9.54	6	58.4	11	25.08	5	51.3	11	3.59	4	67.3	2	58.21	19	77.0	24
Aug. 8	9.48	3	57.3	13	25.03	3	50.2	12	3.55	3	67.5	0	58.02	13	74.6	28
18	9.45	0	56.0	16	25.00	1	49.0	11	3.52	0	67.5	0	57.89	7	71.8	30
28	9.45	2	54.4	18	24.99	2	47.9	9	3.52	2	67.5	2	57.82	1	68.8	32
Sept. 7	9.47	7	52.6	23	25.01	7	47.0	8	3.54	7	67.3	6	57.81	8	65.6	37
17	[10] 9.54	10	50.3	23	[10] 25.08	10	46.2	6	[11] 3.61	9	66.7	7	[11] 57.89	15	61.9	34
27	9.64	15	48.0	23	25.18	13	45.6	2	3.70	13	66.0	10	58.04	23	58.5	34
Oct. 7	9.79	19	45.7	25	25.31	18	45.4	1	3.83	17	65.0	12	58.27	30	55.1	34
17	9.98	24	43.2	25	25.49	21	45.5	4	4.00	21	63.8	15	58.57	38	51.7	32
27	10.22	27	40.7	25	25.70	25	45.9	9	4.21	24	62.3	17	58.95	45	48.5	30
Nov. 6	10.49	31	38.2	25	25.95	28	46.8	11	4.45	27	60.6	18	59.40	51	45.5	27
16	10.80	34	35.7	23	26.23	31	47.9	15	4.72	30	58.8	20	59.91	57	42.8	23
26	11.14	36	33.4	21	26.54	33	49.4	18	5.02	32	56.8	21	60.48	60	40.5	18
Dec. 6	11.50	37	31.3	18	26.87	33	51.2	21	5.34	33	54.7	21	61.08	63	38.7	14
16	11.87	36	29.5	15	27.20	33	53.3	22	5.67	32	52.6	20	61.71	62	37.3	7
26	12.23	36	28.0	12	27.53	31	55.5	23	5.99	32	50.6	19	62.33	61	36.6	2
36	12.59		26.8		27.84		57.8		6.31		48.7		62.94		36.4	
Mittl. Ort	8.15		64.8		23.37		34.5		1.92		78.9		58.18		80.1	
			159)				579)				160)				436)	

1901	λ Draconis. $3^m.3$.				ξ Hydrae. $4^m.0$.				υ Leonis. $4^m.8$.				3 Draconis. $5^m.3$.			
	AR.		Decl. +		AR.		Decl. —		AR.		Decl. —		AR.		Decl. +	
	$11^h\ 25^m$		69° 51′		$11^h\ 28^m$		31° 18′		$11^h\ 31^m$		0° 16′		$11^h\ 36^m$		67° 16′	
Jan. 0	33.42	71	73.4	2	9.48	34	33.6	25	54.08	31	45.8	21	58.59	66	68.9	0
10	34.13	66	73.6	9	9.82	30	36.1	28	54.39	28	47.9	19	59.25	61	68.9	5
20	34.79	58	74.5	14	10.12	27	38.9	28	54.67	25	49.8	18	59.86	54	69.4	12
30	35.37	48	75.9	19	10.39	22	41.7	29	54.92	22	51.6	15	60.40	46	70.6	17
Febr. 9	35.85	38	77.8	23	10.61	18	44.6	27	55.14	17	53.1	13	60.86	36	72.3	21
19	36.23	25	80.1	27	10.79	12	47.3	27	55.31	12	54.4	9	61.22	25	74.4	26
März 1	36.48	12	82.8	29	10.91	8	50.0	25	55.43	8	55.3	8	61.47	15	77.0	27
11	36.60	0	85.7	29	10.99	3	52.5	23	55.51	4	56.1	5	61.62	3	79.7	28
21	36.60	12	88.6	28	11.02	— 1	54.8	20	55.55	0	56.6	2	61.65	— 8	82.5	29
31	36.48	23	91.4	28	11.01	4	56.8	17	55.55	3	56.8	0	61.57	17	85.4	28
April 10	36.25	31	94.2	25	10.97	7	58.5	15	55.52	5	56.8	2	61.40	25	88.2	26
20	35.94	40	96.7	21	10.90	10	60.0	11	55.47	8	56.6	3	61.15	33	90.8	22
30	35.54	45	98.8	17	10.80	11	61.1	8	55.39	9	56.3	4	60.82	38	93.0	19
Mai 10	35.09	49	100.5	13	10.69	13	61.9	5	55.30	10	55.9	5	60.44	41	94.9	15
20	34.60	51	101.8	7	10.56	14	62.4	1	55.20	10	55.4	6	60.03	44	96.4	10
30	34.09	52	102.5	2	10.42	14	62.5	— 1	55.10	11	54.8	6	59.59	45	97.4	4
Juni 9	33.57	50	102.7	— 3	10.28	14	62.4	5	54.99	10	54.2	7	59.14	44	97.8	— 1
19	33.07	49	102.4	8	10.14	14	61.9	8	54.89	11	53.5	7	58.70	43	97.7	5
29	32.58	44	101.6	13	10.00	14	61.1	11	54.78	9	52.8	7	58.27	40	97.2	11
Juli 9	32.14	40	100.3	18	9.86	12	60.0	13	54.69	9	52.1	6	57.87	37	96.1	15
19	31.74	34	98.5	22	9.74	10	58.7	15	54.60	8	51.5	6	57.50	32	94.6	19
29	31.40	27	96.3	26	9.64	9	57.2	17	54.52	5	50.9	6	57.18	26	92.7	24
Aug. 8	31.13	21	93.7	29	9.55	6	55.5	18	54.47	4	50.3	4	56.92	21	90.3	27
18	30.92	13	90.8	32	9.49	3	53.7	18	54.43	2	49.9	3	56.71	13	87.6	30
28	30.79	4	87.6	34	9.46	0	51.9	18	54.41	— 1	49.6	2	56.58	6	84.6	33
Sept. 7	30.75	— 6	84.2	38	9.46	4	50.1	18	54.42	4	49.4	— 1	56.52	— 2	81.3	38
17	[13] 30.81	14	80.4	36	[14] 9.50	9	48.3	15	[15] 54.46	8	49.5	3	[16] 56.54	10	77.5	35
27	30.95	24	76.8	35	9.59	13	46.8	12	54.54	12	49.8	6	56.64	19	74.0	35
Oct. 7	31.19	34	73.3	35	9.72	18	45.6	8	54.66	15	50.4	8	56.83	27	70.5	35
17	31.53	43	69.8	33	9.90	23	44.8	5	54.81	19	51.2	11	57.10	36	67.0	34
27	31.96	51	66.5	31	10.13	26	44.3	0	55.00	24	52.3	14	57.46	45	63.6	32
Nov. 6	32.47	60	63.4	27	10.39	31	44.3	5	55.24	26	53.7	16	57.91	51	60.4	29
16	33.07	66	60.7	23	10.70	34	44.8	9	55.50	29	55.3	19	58.42	58	57.5	25
26	33.73	71	58.4	17	11.04	35	45.7	14	55.79	32	57.2	20	59.00	64	55.0	20
Dec. 6	34.44	74	56.7	13	11.39	37	47.1	18	56.11	32	59.2	21	59.64	67	53.0	16
16	35.18	75	55.4	7	11.76	36	48.9	22	56.43	33	61.3	21	60.31	68	51.4	9
26	35.93	74	54.7	1	12.12	34	51.1	24	56.76	31	63.4	21	60.99	67	50.5	4
36	36.67		54.6		12.46		53.5		57.07		65.5		61.66		50.1	
Mittl. Ort	32.01		98.9		7.89		35.6		52.75		37.7		57.44		94.3	
	162)				581)				438)				439)			

1901	χ Ursae maj. $3^m.8$. AR.		Decl. +		β Leonis. $2^m.0$. AR.		Decl. +		β Virginis. $3^m.3$. AR.		Decl. +		γ Ursae maj. $2^m.3$. AR.		Decl. +	
	$11^h\ 40^m$		48° 19′		$11^h\ 44^m$		15° 6′		$11^h\ 45^m$		2° 18′		$11^h\ 48^m$		54° 14′	
Jan. 0	50.61	42	19.6	7	1.79	32	78.9	17	33.50	31	72.6	20	38.54	47	19.1	6
10	51.03	40	18.9	1	2.11	30	77.2	15	33.81	30	70.6	19	39.01	44	18.5	0
20	51.43	35	18.8	— 4	2.41	27	75.7	11	34.11	26	68.7	17	39.45	40	18.5	5
30	51.78	30	19.2	8	2.68	23	74.6	8	34.37	22	67.0	14	39.85	34	19.0	10
Febr. 9	52.08	24	20.0	14	2.91	18	73.8	4	34.59	18	65.6	11	40.19	28	20.0	15
19	52.32	18	21.4	17	3.09	14	73.4	1	34.77	14	64.5	8	40.47	20	21.5	19
März 1	52.50	11	23.1	20	3.23	9	73.3	— 2	34.91	10	63.7	6	40.67	14	23.4	23
11	52.61	4	25.1	22	3.32	5	73.5	5	35.01	5	63.1	3	40.81	6	25.7	24
21	52.65	— 1	27.3	23	3.37	1	74.0	7	35.06	2	62.8	1	40.87	— 2	28.1	25
31	52.64	7	29.6	24	3.38	— 2	74.7	8	35.08	— 1	62.7	— 1	40.85	7	30.6	26
April 10	52.57	11	32.0	22	3.36	5	75.5	10	35.07	4	62.8	3	40.78	13	33.2	25
20	52.46	15	34.2	21	3.31	7	76.5	10	35.03	7	63.1	4	40.65	18	35.7	22
30	52.31	19	36.3	18	3.24	9	77.5	10	34.96	8	63.5	6	40.47	21	37.9	20
Mai 10	52.12	20	38.1	15	3.15	11	78.5	9	34.88	9	64.1	6	40.26	24	39.9	16
20	51.92	21	39.6	11	3.04	11	79.4	9	34.79	10	64.7	6	40.02	25	41.5	12
30	51.71	22	40.7	8	2.93	12	80.3	8	34.69	10	65.3	7	39.77	26	42.7	9
Juni 9	51.49	22	41.5	3	2.81	12	81.1	7	34.59	11	66.0	7	39.51	26	43.6	4
19	51.27	20	41.8	— 1	2.69	11	81.8	6	34.48	10	66.7	6	39.25	26	44.0	— 1
29	51.07	20	41.7	4	2.58	11	82.4	4	34.38	10	67.3	6	38.99	24	43.9	6
Juli 9	50.87	17	41.3	9	2.47	9	82.8	2	34.28	9	67.9	6	38.75	22	43.3	9
19	50.70	16	40.4	13	2.38	9	83.0	0	34.19	8	68.5	5	38.53	19	42.4	14
29	50.54	13	39.1	16	2.29	7	83.0	1	34.11	7	69.0	4	38.34	17	41.0	18
Aug. 8	50.41	9	37.5	19	2.22	5	82.9	4	34.04	5	69.4	3	38.17	13	39.2	21
18	50.32	6	35.6	23	2.17	3	82.5	5	33.99	3	69.7	2	38.04	9	37.1	24
28	50.26	2	33.3	25	2.14	0	82.0	8	33.96	0	69.9	0	37.95	4	34.7	27
Sept. 7	50.24	— 2	30.8	27	2.14	2	81.2	9	33.96	3	69.9	3	37.91	0	32.0	30
17	50.26	8	28.1	32	2.16	7	80.3	14	33.99	7	69.6	5	37.91	7	29.0	34
27	[17] 50.34	13	24.9	31	[18] 2.23	10	78.9	15	[19] 34.06	10	69.1	7	[20] 37.98	12	25.6	33
Oct. 7	50.47	18	21.8	31	2.33	14	77.4	17	34.16	14	68.4	10	38.10	19	22.3	33
17	50.65	23	18.7	31	2.47	19	75.7	19	34.30	19	67.4	12	38.29	24	19.0	33
27	50.88	29	15.6	30	2.66	22	73.8	20	34.49	22	66.2	15	38.53	30	15.7	31
Nov. 6	51.17	33	12.6	29	2.88	26	71.8	21	34.71	26	64.7	17	38.83	36	12.6	30
16	51.50	38	9.7	26	3.14	29	69.7	22	34.97	29	63.0	20	39.19	41	9.6	27
26	51.88	41	7.1	23	3.43	32	67.5	22	35.26	31	61.0	20	39.60	45	6.9	24
Dec. 6	52.29	42	4.8	19	3.75	33	65.3	22	35.57	32	59.0	21	40.05	47	4.5	20
16	52.71	44	2.9	14	4.08	33	63.1	21	35.89	33	56.9	22	40.52	48	2.5	14
26	53.15	43	1.5	10	4.41	33	61.0	18	36.22	32	54.7	20	41.00	48	1.1	10
36	53.58		0.5		4.74		59.2		36.54		52.7		41.48		0.1	
Mittl. Ort	49.51		41.9		0.60		91.9		32.26		81.4		37.54		42.5	
	163)				164)				165)				166)			

1901	o Virginis. $4^m.0$.				ε Corvi. $3^m.0$.				4 H. Draconis. $4^m.6$.				δ Ursae maj. $3^m.4$.			
	AR.		Decl. +		AR.		Decl. —		AR.		Decl. +		AR.		Decl. +	
	$12^h\ 0^m$		9° 16′		$12^h\ 5^m$		22° 4′		$12^h\ 7^m$		78° 9′		$12^h\ 10^m$		57° 34′	
	s		"		s		"		s		"		s		"	
Jan. 0	11.10	32	47.2	19	3.20	34	9.3	23	34.07	115	33.1	1	32.45	51	33.5	8
10	11.42	30	45.3	16	3.54	31	11.6	24	35.22	111	33.0	— 5	32.96	48	32.7	1
20	11.72	27	43.7	14	3.85	28	14.0	24	36.33	102	33.5	11	33.44	45	32.6	— 5
30	11.99	24	42.3	11	4.13	25	16.4	24	37.35	89	34.6	17	33.89	39	33.1	10
Febr. 9	12.23	19	41.2	8	4.38	21	18.8	23	38.24	73	36.3	23	34.28	33	34.1	15
19	12.42	16	40.4	4	4.59	16	21.1	22	38.97	56	38.6	26	34.61	25	35.6	19
März 1	12.58	11	40.0	2	4.75	12	23.3	20	39.53	36	41.2	29	34.86	17	37.5	24
11	12.69	6	39.8	— 1	4.87	8	25.3	17	39.89	15	44.1	30	35.03	10	39.9	26
21	12.75	3	39.9	4	4.95	3	27.0	15	40.04	— 5	47.1	32	35.13	2	42.5	27
31	12.78	0	40.3	5	4.98	0	28.5	13	39.99	24	50.3	31	35.15	— 5	45.2	27
April 10	12.78	3	40.8	7	4.98	2	29.8	11	39.75	42	53.4	28	35.10	11	47.9	26
20	12.75	6	41.5	8	4.96	5	30.9	8	39.33	58	56.2	25	34.99	17	50.5	25
30	12.69	8	42.3	9	4.91	8	31.7	5	38.75	70	58.7	22	34.82	21	53.0	22
Mai 10	12.61	9	43.2	8	4.83	9	32.2	3	38.05	81	60.9	17	34.61	25	55.2	18
20	12.52	10	44.0	9	4.74	10	32.5	1	37.24	88	62.6	12	34.36	27	57.0	14
30	12.42	10	44.9	8	4.64	11	32.6	— 2	36.36	92	63.8	7	34.09	29	58.4	10
Juni 9	12.32	11	45.7	7	4.53	12	32.4	4	35.44	94	64.5	2	33.80	29	59.4	5
19	12.21	11	46.4	6	4.41	12	32.0	7	34.50	94	64.7	— 5	33.51	30	59.9	1
29	12.10	11	47.0	6	4.29	12	31.3	8	33.56	90	64.2	10	33.21	28	60.0	— 4
Juli 9	11.99	10	47.6	4	4.17	11	30.5	10	32.66	85	63.2	14	32.93	27	59.6	9
19	11.89	9	48.0	3	4.06	11	29.5	11	31.81	77	61.8	20	32.66	25	58.7	13
29	11.80	8	48.3	1	3.95	10	28.4	12	31.04	68	59.8	24	32.41	22	57.4	18
Aug. 8	11.72	6	48.4	0	3.85	7	27.2	13	30.36	58	57.4	28	32.19	18	55.6	21
18	11.66	5	48.4	2	3.78	6	25.9	14	29.78	46	54.6	31	32.01	14	53.5	25
28	11.61	2	48.2	4	3.72	3	24.5	12	29.32	32	51.5	34	31.87	10	51.0	28
Sept. 7	11.59	— 1	47.8	7	3.69	0	23.3	12	29.00	19	48.1	36	31.77	4	48.2	30
17	11.60	6	47.1	9	3.69	5	22.1	11	28.81	2	44.5	41	31.73	— 2	45.2	36
27	[23] 11.66	8	46.2	11	[24] 3.74	9	21.0	7	[25] 28.79	— 14	40.4	38	[26] 31.75	8	41.6	34
Oct. 7	11.74	13	45.1	14	3.83	13	20.3	5	28.93	31	36.6	37	31.83	15	38.2	34
17	11.87	17	43.7	16	3.96	18	19.8	1	29.24	47	32.9	36	31.98	22	34.8	35
27	12.04	20	42.1	18	4.14	22	19.7	— 2	29.71	63	29.3	34	32.20	29	31.3	33
Nov. 6	12.24	25	40.3	20	4.36	27	19.9	7	30.34	78	25.9	31	32.49	34	28.0	32
16	12.49	28	38.3	21	4.63	30	20.6	10	31.12	92	22.8	28	32.83	41	24.8	29
26	12.77	31	36.2	21	4.93	32	21.6	14	32.04	102	20.0	23	33.24	46	21.9	26
Dec. 6	13.08	32	34.1	22	5.25	34	23.0	17	33.06	111	17.7	17	33.70	49	19.3	21
16	13.40	33	31.9	21	5.59	35	24.7	20	34.17	116	16.0	11	34.19	51	17.2	16
26	13.73	32	29.8	20	5.94	34	26.7	22	35.33	118	14.9	4	34.70	51	15.6	10
36	14.05		27.8		6.28		28.9		36.51		14.5		35.21		14.6	
Mittl. Ort	9.98		58.1		1.90		9.5		33.95		59.2		31.77		57.3	
	167)				582)				168)				169)			

1901	η Virginis. 3m.3. AR.		Decl. −		δ Corvi. 2m.3. AR.		Decl. −		20 Comae. 6m.0. AR.		Decl. +		8 Canum ven. 4m.3. AR.		Decl. +	
	12h 14m		0° 7′		12h 24m		15° 57′		12h 24m		21° 26′		12h 29m		41° 53′	
Jan. 0	51.49	32	7.7	20	45.63	33	53.7	22	45.85	34	25.3	18	3.20	40	22.8	13
10	51.81	30	9.7	20	45.96	31	55.9	23	46.19	32	23.5	14	3.60	38	21.5	8
20	52.11	28	11.7	18	46.27	29	58.2	22	46.51	30	22.1	10	3.98	35	20.7	3
30	52.39	24	13.5	15	46.56	26	60.4	21	46.81	27	21.1	6	4.33	32	20.4	2
Febr. 9	52.63	21	15.0	13	46.82	22	62.5	20	47.08	22	20.5	2	4.65	27	20.6	8
19	52.84	17	16.3	10	47.04	18	64.5	18	47.30	18	20.3	2	4.92	21	21.4	12
März 1	53.01	12	17.3	7	47.22	13	66.3	16	47.48	14	20.5	5	5.13	17	22.6	16
11	53.13	8	18.0	4	47.35	10	67.9	14	47.62	10	21.0	8	5.30	10	24.2	19
21	53.21	5	18.4	2	47.45	6	69.3	12	47.72	5	21.8	11	5.40	6	26.1	21
31	53.26	1	18.6	0	47.51	2	70.5	9	47.77	2	22.9	13	5.46	0	28.2	23
April 10	53.27	1	18.6	2	47.53	0	71.4	7	47.79	2	24.2	13	5.46	4	30.5	23
20	53.26	4	18.4	3	47.53	3	72.1	5	47.77	5	25.5	14	5.42	8	32.8	22
30	53.22	6	18.1	5	47.50	5	72.6	3	47.72	7	26.9	14	5.34	12	35.0	20
Mai 10	53.16	8	17.6	6	47.45	7	72.9	1	47.65	9	28.3	14	5.22	14	37.0	19
20	53.08	9	17.0	6	47.38	9	73.0	1	47.56	10	29.7	12	5.08	16	38.9	16
30	52.99	9	16.4	6	47.29	10	72.9	3	47.46	11	30.9	11	4.92	17	40.5	12
Juni 9	52.90	11	15.8	7	47.19	11	72.6	4	47.35	12	32.0	8	4.75	18	41.7	9
19	52.79	10	15.1	7	47.08	11	72.2	6	47.23	13	32.8	7	4.57	18	42.6	5
29	52.69	11	14.4	7	46.97	11	71.6	7	47.10	12	33.5	5	4.39	19	43.1	1
Juli 9	52.58	10	13.7	6	46.86	12	70.9	9	46.98	12	34.0	2	4.20	18	43.2	2
19	52.48	10	13.1	6	46.74	10	70.0	9	46.86	12	34.2	0	4.02	17	43.0	7
29	52.38	9	12.5	5	46.64	10	69.1	10	46.74	10	34.2	3	3.85	15	42.3	10
Aug. 8	52.29	7	12.0	4	46.54	9	68.1	10	46.64	9	33.9	6	3.70	14	41.3	14
18	52.22	6	11.6	3	46.45	7	67.1	10	46.55	7	33.3	8	3.56	11	39.9	17
28	52.16	3	11.3	1	46.38	5	66.1	9	46.48	5	32.5	11	3.45	8	38.2	20
Sept. 7	52.13	0	11.2	1	46.33	1	65.2	8	46.43	2	31.4	13	3.37	4	36.2	24
17	52.13	3	11.3	3	46.32	2	64.4	7	46.41	2	30.1	15	3.33	0	33.8	26
27	52.16	8	11.6	6	46.34	7	63.7	5	46.43	6	28.6	20	3.33	5	31.2	30
Oct. 7	[27] 52.24	11	12.2	8	[30] 46.41	11	63.2	1	[30] 46.49	10	26.6	20	[1] 3.38	10	28.2	30
17	52.35	16	13.0	11	46.52	15	63.1	2	46.59	15	24.6	22	3.48	15	25.2	31
27	52.51	20	14.1	13	46.67	21	63.3	5	46.74	19	22.4	24	3.63	20	22.1	31
Nov. 6	52.71	23	15.4	16	46.88	24	63.8	8	46.93	23	20.0	24	3.83	26	19.0	30
16	52.94	27	17.0	18	47.12	27	64.6	12	47.16	27	17.6	25	4.09	30	16.0	29
26	53.21	30	18.8	20	47.39	31	65.8	15	47.43	31	15.1	25	4.39	34	13.1	27
Dec. 6	53.51	32	20.8	21	47.70	33	67.3	17	47.74	32	12.6	23	4.73	37	10.4	24
16	53.83	33	22.9	21	48.03	34	69.0	19	48.06	34	10.3	22	5.10	39	8.0	21
26	54.16	32	25.0	21	48.37	33	70.9	21	48.40	34	8.1	19	5.49	40	5.9	16
36	54.48		27.1		48.70		73.0		48.74		6.2		5.89		4.3	
Mittl. Ort	50.40		0.5		44.49		52.3		44.97		39.7		2.54		43.0	
			170)				584)				443)				445)	

1901	β Corvi. 2ᵐ.3. AR.		Decl. −		κ Draconis. 3ᵐ.3. AR.		Decl. +		24 Comae seq. 5ᵐ.2. AR.		Decl. +		76 Ursae maj. 6ᵐ.0. AR.		Decl. +	
	$12^h\ 29^m$		$22°\ 50'$		$12^h\ 29^m$		$70°\ 19'$		$12^h\ 30^m$		$18°\ 54'$		$12^h\ 37^m$		$63°\ 14'$	
Jan. 0	$12^s.18$	35	57″.0	22	$15^s.45$	75	36″.5	6	$10^s.74$	34	66″.0	18	$14^s.67$	59	59″.3	9
10	12.53	32	59.2	23	16.20	73	35.9	0	11.08	32	64.2	15	15.26	57	58.4	3
20	12.85	30	61.5	23	16.93	68	35.9	6	11.40	30	62.7	12	15.83	54	58.1	— 3
30	13.15	27	63.8	24	17.61	60	36.5	13	11.70	26	61.5	7	16.37	48	58.4	10
Febr. 9	13.42	23	66.2	22	18.21	52	37.8	18	11.96	23	60.8	3	16.85	42	59.4	15
19	13.65	18	68.4	21	18.73	41	39.6	23	12.19	19	60.5	0	17.27	33	60.9	20
März 1	13.83	15	70.5	20	19.14	29	41.9	26	12.38	14	60.5	3	17.60	25	62.9	24
11	13.98	11	72.5	18	19.43	18	44.5	29	12.52	10	60.8	7	17.85	16	65.3	27
21	14.09	6	74.3	15	19.61	5	47.4	30	12.62	6	61.5	10	18.01	7	68.0	28
31	14.15	3	75.8	14	19.66	— 7	50.4	31	12.68	2	62.5	11	18.08	— 2	70.8	30
April 10	14.18	0	77.2	11	19.59	18	53.5	29	12.70	— 1	63.6	13	18.06	10	73.8	29
20	14.18	2	78.3	8	19.41	27	56.4	27	12.69	4	64.9	13	17.96	17	76.7	27
30	14.16	5	79.1	7	19.14	36	59.1	24	12.65	6	66.2	13	17.79	23	79.4	25
Mai 10	14.11	7	79.8	4	18.78	43	61.5	21	12.59	8	67.5	13	17.56	29	81.9	21
20	14.04	9	80.2	2	18.35	47	63.6	15	12.51	10	68.8	12	17.27	32	84.0	17
30	13.95	11	80.4	— 1	17.88	51	65.1	11	12.41	11	70.0	10	16.95	35	85.7	12
Juni 9	13.84	11	80.3	3	17.37	54	66.2	6	12.30	11	71.0	9	16.60	37	86.9	8
19	13.73	12	80.0	5	16.83	54	66.8	0	12.19	12	71.9	7	16.23	38	87.7	3
29	13.61	12	79.5	7	16.29	53	66.8	5	12.07	12	72.6	6	15.85	37	88.0	— 2
Juli 9	13.49	12	78.8	9	15.76	51	66.3	10	11.95	12	73.2	3	15.48	37	87.8	8
19	13.37	12	77.9	10	15.25	47	65.3	15	11.83	12	73.5	0	15.11	34	87.0	12
29	13.25	11	76.9	11	14.78	44	63.8	20	11.71	10	73.5	2	14.77	32	85.8	17
Aug. 8	13.14	10	75.8	12	14.34	38	61.8	23	11.61	10	73.3	4	14.45	28	84.1	21
18	13.04	8	74.6	13	13.96	31	59.5	28	11.51	7	72.9	6	14.17	23	82.0	25
28	12.96	5	73.3	13	13.65	24	56.7	31	11.44	5	72.3	9	13.94	18	79.5	28
Sept. 7	12.91	2	72.0	11	13.41	16	53.6	34	11.39	2	71.4	12	13.76	13	76.7	31
17	12.89	— 2	70.9	11	13.25	7	50.2	35	11.37	— 1	70.2	14	13.63	6	73.6	34
27	12.91	7	69.8	9	13.18	— 4	46.7	41	11.38	6	68.8	18	13.57	— 2	70.2	39
Oct. 7	[1] 12.98	11	68.9	5	[1] 13.22	13	42.6	37	[1] 11.44	9	67.0	19	[3] 13.59	10	66.3	36
17	13.09	15	68.4	3	13.35	25	38.9	37	11.53	14	65.1	21	13.69	19	62.7	36
27	13.24	20	68.1	— 1	13.60	35	35.2	36	11.67	19	63.0	23	13.88	26	59.1	36
Nov. 6	13.44	25	68.2	5	13.95	45	31.6	33	11.86	22	60.7	24	14.14	35	55.5	34
16	13.69	29	68.7	9	14.40	55	28.3	30	12.08	27	58.3	24	14.49	42	52.1	31
26	13.98	31	69.6	11	14.95	63	25.3	26	12.35	30	55.9	24	14.91	48	49.0	28
Dec. 6	14.29	34	70.7	16	15.58	69	22.7	22	12.65	32	53.5	23	15.39	53	46.2	23
16	14.63	35	72.3	19	16.27	73	20.5	16	12.97	33	51.2	22	15.92	57	43.9	18
26	14.98	34	74.2	20	17.00	75	18.9	9	13.30	33	49.0	20	16.49	59	42.1	12
36	15.32		76.2		17.75		18.0		13.63		47.0		17.08		40.9	
Mittl. Ort	11.01		58.1		15.45		61.7		9.88		79.4		14.52		83.5	
	585)				171)				446)				447)			

1901	ε Ursae maj. $2^m.0$				δ Virginis. $3^m.0$				12 Can.ven.sq. $2^m.9$				8 Draconis. $5^m.0$			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$12^h\ 49^m$		56° 29′		$12^h\ 50^m$		3° 55′		$12^h\ 51^m$		38° 50′		$12^h\ 51^m$		65° 57′	
Jan. 0	40.65	50	25.8	13	37.76	33	59.7	20	24.35	39	52.1	16	32.10	63	67.2	11
10	41.15	49	24.5	6	38.09	31	57.7	19	24.74	37	50.5	11	32.73	63	66.1	4
20	41.64	46	23.9	0	38.40	29	55.8	17	25.11	35	49.4	6	33.36	59	65.7	—3
30	42.10	42	23.9	6	38.69	27	54.1	14	25.46	32	48.8	0	33.95	54	66.0	9
Febr. 9	42.52	37	24.5	12	38.96	23	52.7	10	25.78	28	48.8	4	34.49	48	66.9	14
19	42.89	30	25.7	17	39.19	20	51.7	8	26.06	24	49.2	9	34.97	39	68.3	20
März 1	43.19	23	27.4	21	39.39	16	50.9	5	26.30	18	50.1	14	35.36	30	70.3	24
11	43.42	17	29.5	24	39.55	11	50.4	2	26.48	13	51.5	17	35.66	20	72.7	27
21	43.59	9	31.9	27	39.66	8	50.2	0	26.61	9	53.2	20	35.86	10	75.4	29
31	43.68	1	34.6	27	39.74	5	50.2	3	26.70	3	55.2	22	35.96	1	78.3	31
April 10	43.69	—4	37.3	28	39.79	2	50.5	5	26.73	—1	57.4	22	35.97	—8	81.4	30
20	43.65	11	40.1	27	39.81	—1	51.0	6	26.72	5	59.6	23	35.89	17	84.4	28
30	43.54	16	42.8	25	39.80	4	51.6	8	26.67	8	61.9	21	35.72	25	87.2	26
Mai 10	43.38	20	45.3	22	39.76	5	52.4	7	26.59	11	64.0	20	35.47	30	89.8	22
20	43.18	23	47.5	19	39.71	7	53.1	8	26.48	13	66.0	17	35.17	35	92.0	19
30	42.95	26	49.4	14	39.64	9	53.9	9	26.35	15	67.7	14	34.82	39	93.9	14
Juni 9	42.69	28	50.8	10	39.55	9	54.8	8	26.20	16	69.1	11	34.43	42	95.3	9
19	42.41	29	51.8	6	39.46	11	55.6	7	26.04	17	70.2	8	34.01	43	96.2	4
29	42.12	29	52.4	0	39.35	11	56.3	7	25.87	17	71.0	3	33.58	43	96.6	—1
Juli 9	41.83	29	52.4	4	39.24	11	57.0	6	25.70	18	71.3	0	33.15	42	96.5	6
19	41.54	27	52.0	9	39.13	11	57.6	5	25.52	18	71.3	4	32.73	41	95.9	11
29	41.27	25	51.1	13	39.02	11	58.1	4	25.34	16	70.9	7	32.32	38	94.8	16
Aug. 8	41.02	24	49.8	18	38.91	10	58.5	2	25.18	14	70.2	11	31.94	35	93.2	21
18	40.78	20	48.0	22	38.81	9	58.7	1	25.04	13	69.1	15	31.59	29	91.1	24
28	40.58	16	45.8	25	38.72	6	58.8	—1	24.91	10	67.6	18	31.30	24	88.7	29
Sept. 7	40.42	11	43.3	28	38.66	4	58.7	3	24.81	7	65.8	21	31.06	18	85.8	31
17	40.31	6	40.5	31	38.62	0	58.4	5	24.74	2	63.7	24	30.88	11	82.7	34
27	40.25	0	37.4	34	38.62	3	57.9	8	24.72	—1	61.3	27	30.77	3	79.3	35
Oct. 7	40.25	7	34.0	38	38.65	8	57.1	11	24.73	7	58.6	31	30.74	—7	75.8	41
17	[7] 40.32	14	30.2	35	[7] 38.73	12	56.0	13	[7] 24.80	12	55.5	30	[7] 30.81	16	71.7	37
27	40.46	21	26.7	36	38.85	17	54.7	15	24.92	18	52.5	31	30.97	25	68.0	36
Nov. 6	40.67	28	23.1	34	39.02	20	53.2	17	25.10	22	49.4	31	31.22	34	64.4	35
16	40.95	34	19.7	32	39.22	25	51.5	20	25.32	27	46.3	30	31.56	42	60.9	33
26	41.29	40	16.5	29	39.47	28	49.5	20	25.59	32	43.3	28	31.98	50	57.6	29
Dec. 6	41.69	45	13.6	25	39.75	30	47.5	21	25.91	35	40.5	26	32.48	56	54.7	24
16	42.14	48	11.1	21	40.05	32	45.4	22	26.26	37	37.9	23	33.04	60	52.3	20
26	42.62	49	9.0	15	40.37	33	43.2	21	26.63	38	35.6	18	33.64	63	50.3	13
36	43.11		7.5		40.70		41.1		27.01		33.8		34.27		49.0	
Mittl. Ort	40.48		48.5		36.92		67.5		23.85		70.9		32.31		91.2	
	173)				174)				175)				448)			

1901	ε Virginis. $2^m.6$.				ϑ Virginis. $4^m.3$.				43 Comae. $4^m.1$.				γ Hydrae. $3^m.2$.			
	AR.		Decl. +		AR.		Decl. —		AR.		Decl. +		AR.		Decl. —	
	$12^h\ 57^m$		11° 28′		$13^h\ 4^m$		5° 0′		$13^h\ 7^m$		28° 22′		$13^h\ 13^m$		22° 38′	
	s		″		s		″		s		″		s		″	
Jan. 0	15.66	33	78.0	20	50.17	33	42.2	20	15.78	36	32.5	19	33.07	35	55.8	19
10	15.99	32	76.0	17	50.50	32	44.2	20	16.14	34	30.6	14	33.42	34	57.7	20
20	16.31	30	74.3	15	50.82	30	46.2	18	16.48	33	29.2	10	33.76	33	59.7	21
30	16.61	28	72.8	11	51.12	27	48.0	17	16.81	30	28.2	6	34.09	29	61.8	21
Febr. 9	16.89	24	71.7	8	51.39	25	49.7	15	17.11	27	27.6	0	34.38	27	63.9	21
19	17.13	20	70.9	4	51.64	21	51.2	12	17.38	22	27.6	4	34.65	23	66.0	20
März 1	17.33	17	70.5	1	51.85	17	52.4	10	17.60	18	28.0	8	34.88	19	68.0	18
11	17.50	12	70.4	— 3	52.02	13	53.4	7	17.78	15	28.8	12	35.07	15	69.8	17
21	17.62	9	70.7	5	52.15	10	54.1	5	17.93	9	30.0	15	35.22	12	71.5	15
31	17.71	5	71.2	7	52.25	6	54.6	2	18.02	6	31.5	17	35.34	8	73.0	12
April 10	17.76	2	71.9	10	52.31	4	54.8	1	18.08	2	33.2	18	35.42	4	74.2	11
20	17.78	— 1	72.9	10	52.35	1	54.9	— 2	18.10	— 2	35.0	19	35.46	2	75.3	9
30	17.77	3	73.9	11	52.36	— 2	54.7	3	18.08	5	36.9	19	35.48	0	76.2	7
Mai 10	17.74	5	75.0	11	52.34	4	54.4	4	18.03	7	38.8	18	35.48	3	76.9	4
20	17.69	8	76.1	11	52.30	6	54.0	5	17.96	9	40.6	17	35.45	6	77.3	3
30	17.61	9	77.2	10	52.24	7	53.5	6	17.87	11	42.3	14	35.39	8	77.6	1
Juni 9	17.52	9	78.2	9	52.17	9	52.9	6	17.76	13	43.7	12	35.31	9	77.7	— 1
19	17.43	11	79.1	9	52.08	10	52.3	6	17.63	14	44.9	10	35.22	11	77.6	3
29	17.32	12	80.0	7	51.98	11	51.7	7	17.49	14	45.9	6	35.11	12	77.3	5
Juli 9	17.20	12	80.7	5	51.87	11	51.0	7	17.35	15	46.5	4	34.99	12	76.8	7
19	17.08	12	81.2	3	51.76	12	50.3	6	17.20	15	46.9	0	34.87	14	76.1	8
29	16.96	11	81.5	2	51.64	11	49.7	6	17.05	14	46.9	3	34.73	13	75.3	9
Aug. 8	16.85	11	81.7	— 1	51.53	11	49.1	6	16.91	13	46.6	6	34.60	12	74.4	11
18	16.74	9	81.6	2	51.42	9	48.5	5	16.78	12	46.0	9	34.48	11	73.3	11
28	16.65	7	81.4	5	51.33	8	48.0	3	16.66	10	45.1	13	34.37	9	72.2	11
Sept. 7	16.58	5	80.9	7	51.25	5	47.7	2	16.56	7	43.8	15	34.28	6	71.1	10
17	16.53	1	80.2	9	51.20	2	47.5	0	16.49	4	42.3	18	34.22	3	70.1	10
27	16.52	— 2	79.3	12	51.18	— 2	47.5	2	16.45	0	40.5	21	34.19	— 1	69.1	9
Oct. 7	16.54	7	78.1	16	51.20	7	47.7	5	16.45	5	38.4	26	34.20	7	68.2	7
17	[9] 16.61	11	76.5	17	[11] 51.27	11	48.2	7	[11] 16.50	10	35.8	25	[13] 34.27	11	67.5	3
27	16.72	16	74.8	19	51.38	16	48.9	10	16.60	15	33.3	27	34.38	16	67.2	1
Nov. 6	16.88	20	72.9	21	51.54	20	49.9	13	16.75	19	30.6	28	34.54	21	67.1	— 3
16	17.08	24	70.8	22	51.74	24	51.2	15	16.94	24	27.8	28	34.75	26	67.4	6
26	17.32	28	68.6	23	51.98	27	52.7	17	17.18	29	25.0	27	35.01	29	68.0	10
Dec. 6	17.60	31	66.3	23	52.25	31	54.4	19	17.47	31	22.3	26	35.30	32	69.0	12
16	17.91	32	64.0	22	52.56	32	56.3	20	17.78	33	19.7	23	35.62	34	70.2	16
26	18.23	32	61.8	21	52.88	33	58.3	20	18.11	35	17.4	20	35.96	35	71.8	18
36	18.55		59.7		53.21		60.3		18.46		15.4		36.31		73.6	
Mittl. Ort	14.92		88.2		49.34		38.0		15.27		47.8		32.16		57.9	
	176)				449)				177)				586)			

1901	ζ Urs. maj. pr. $2^m.1$. AR.		Decl. +		α Virginis. 1^m. AR.		Decl. −		Gr. 2001. $5^m.7$. AR.		Decl. +		69 H. Urs. maj. $5^m.3$. AR.		Decl. +	
	$13^h\ 19^m$		$55°\ 25'$		$13^h\ 19^m$		$10°\ 38'$		$13^h\ 23^m$		$72°\ 53'$		$13^h\ 24^m$		$60°\ 26'$	
Jan. 0	56.24	48	70.8	16	59.32	33	42.7	20	34.95	82	56.4	14	48.77	53	62.5	16
10	56.72	48	69.2	10	59.65	33	44.7	20	35.77	82	55.0	6	49.30	54	60.9	9
20	57.20	46	68.2	3	59.98	31	46.7	19	36.59	81	54.4	0	49.84	52	60.0	3
30	57.66	43	67.9	2	60.29	28	48.6	18	37.40	76	54.4	7	50.36	48	59.7	3
Febr. 9	58.09	39	68.1	8	60.57	26	50.4	16	38.16	69	55.1	13	50.84	44	60.0	10
19	58.48	34	68.9	14	60.83	23	52.0	15	38.85	59	56.4	19	51.28	38	61.0	15
März 1	58.82	27	70.3	19	61.06	18	53.5	13	39.44	49	58.3	24	51.66	32	62.5	20
11	59.09	21	72.2	23	61.24	15	54.8	10	39.93	35	60.7	27	51.98	24	64.5	25
21	59.30	13	74.5	26	61.39	12	55.8	7	40.28	22	63.4	30	52.22	15	67.0	27
31	59.43	7	77.1	28	61.51	8	56.5	6	40.50	9	66.4	31	52.37	8	69.7	29
April 10	59.50	1	79.9	29	61.59	5	57.1	3	40.59	5	69.5	31	52.45	0	72.6	29
20	59.51	6	82.8	28	61.64	3	57.4	2	40.54	18	72.6	31	52.45	7	75.5	30
30	59.45	11	85.6	26	61.67	0	57.6	0	40.36	28	75.7	29	52.38	13	78.5	28
Mai 10	59.34	15	88.2	25	61.67	3	57.6	1	40.08	39	78.6	25	52.25	19	81.3	25
20	59.19	20	90.7	21	61.64	5	57.5	3	39.69	47	81.1	22	52.06	23	83.8	22
30	58.99	23	92.8	18	61.59	6	57.2	4	39.22	54	83.3	17	51.83	28	86.0	18
Juni 9	58.76	26	94.6	14	61.53	8	56.8	4	38.68	59	85.0	12	51.55	31	87.8	14
19	58.50	27	96.0	9	61.45	10	56.4	6	38.09	63	86.2	8	51.24	33	89.2	9
29	58.23	28	96.9	5	61.35	11	55.8	6	37.46	65	87.0	2	50.91	35	90.1	5
Juli 9	57.95	30	97.4	1	61.24	12	55.2	7	36.81	66	87.2	4	50.56	35	90.6	1
19	57.65	28	97.3	5	61.12	12	54.5	7	36.15	64	86.8	9	50.21	35	90.5	6
29	57.37	28	96.8	10	61.00	12	53.8	7	35.51	62	85.9	14	49.86	34	89.9	10
Aug. 8	57.09	26	95.8	14	60.88	12	53.1	7	34.89	58	84.5	19	49.52	31	88.9	16
18	56.83	24	94.4	19	60.76	10	52.4	7	34.31	53	82.6	23	49.21	29	87.3	20
28	56.59	20	92.5	23	60.66	9	51.7	5	33.78	45	80.3	27	48.92	26	85.3	23
Sept. 7	56.39	16	90.2	26	60.57	6	51.2	5	33.33	38	77.6	31	48.66	20	83.0	28
17	56.23	11	87.6	30	60.51	3	50.7	4	32.95	28	74.5	34	48.46	15	80.2	31
27	56.12	6	84.6	32	60.48	0	50.3	1	32.67	18	71.1	35	48.31	9	77.1	33
Oct. 7	56.06	2	81.4	37	60.48	5	50.2	1	32.49	7	67.6	42	48.22	1	73.8	39
17	15 56.08	8	77.7	36	15 60.53	10	50.3	3	16 32.42	8	63.4	37	16 48.21	7	69.9	37
27	56.16	15	74.1	36	60.63	15	50.6	6	32.50	20	59.7	38	48.28	15	66.2	36
Nov. 6	56.31	22	70.5	35	60.78	19	51.2	9	32.70	33	55.9	37	48.43	23	62.6	36
16	56.53	29	67.0	34	60.97	24	52.1	12	33.03	45	52.2	34	48.66	31	59.0	35
26	56.82	35	63.6	32	61.21	27	53.3	14	33.48	56	48.8	31	48.97	38	55.5	32
Dec. 6	57.17	41	60.4	28	61.48	30	54.7	17	34.04	66	45.7	27	49.35	44	52.3	28
16	57.58	44	57.6	24	61.78	32	56.4	18	34.70	75	43.0	22	49.79	49	49.5	24
26	58.02	47	55.2	18	62.10	33	58.2	19	35.45	80	40.8	17	50.28	52	47.1	19
36	58.49		53.4		62.43		60.1		36.25		39.1		50.80		45.2	
Mittl. Ort	56.41		92.2		58.54		40.9		36.45		79.8		49.22		84.5	
	178)				587)				452)				453)			

1901	ζ Virginis. $3^m.3$. AR.		ζ Virginis. Decl. −		17 H.Can.ven. $5^m.5$. AR.		17 H.Can.ven. Decl. +	
	$13^h\ 29^m$		$0°\ 5'$		$13^h\ 30^m$		$37°\ 40'$	
Jan. 0	39.48	32	28.3	20	22.73	37	65.0	20
10	39.80	32	30.3	19	23.10	37	63.0	15
20	40.12	31	32.2	18	23.47	36	61.5	9
30	40.43	29	34.0	15	23.83	34	60.6	4
Febr. 9	40.72	26	35.5	13	24.17	30	60.2	1
19	40.98	23	36.8	9	24.47	27	60.3	7
März 1	41.21	19	37.7	7	24.74	23	61.0	11
11	41.40	15	38.4	4	24.97	17	62.1	16
21	41.55	12	38.8	2	25.14	13	63.7	19
31	41.67	9	39.0	1	25.27	8	65.6	21
April 10	41.76	6	38.9	3	25.35	4	67.7	23
20	41.82	3	38.6	5	25.39	0	70.0	23
30	41.85	0	38.1	6	25.39	4	72.3	23
Mai 10	41.85	2	37.5	6	25.35	7	74.6	22
20	41.83	5	36.9	8	25.28	10	76.8	20
30	41.78	6	36.1	7	25.18	12	78.8	17
Juni 9	41.72	8	35.4	8	25.06	14	80.5	15
19	41.64	9	34.6	8	24.92	16	82.0	11
29	41.55	11	33.8	7	24.76	18	83.1	7
Juli 9	41.44	11	33.1	6	24.58	18	83.8	4
19	41.33	12	32.5	6	24.40	18	84.2	0
29	41.21	13	31.9	5	24.22	18	84.2	4
Aug. 8	41.08	12	31.4	4	24.04	17	83.8	8
18	40.96	11	31.0	3	23.87	16	83.0	12
28	40.85	9	30.7	1	23.71	14	81.8	16
Sept. 7	40.76	7	30.6	0	23.57	11	80.2	18
17	40.69	4	30.6	2	23.46	8	78.4	22
27	40.65	1	30.8	5	23.38	4	76.2	25
Oct. 7	40.64	3	31.3	7	23.34	1	73.7	28
17	40.67	9	32.0	11	23.35	8	70.9	32
27	[17] 40.76	13	33.1	12	[18] 23.43	13	67.7	31
Nov. 6	40.89	18	34.3	15	23.56	17	64.6	31
16	41.07	21	35.8	17	23.73	23	61.5	31
26	41.28	26	37.5	19	23.96	28	58.4	31
Dec. 6	41.54	29	39.4	20	24.24	32	55.3	28
16	41.83	31	41.4	20	24.56	34	52.5	26
26	42.14	32	43.4	21	24.90	37	49.9	22
36	42.46		45.5		25.27		47.7	
Mittl. Ort	38.83		23.1		22.54		82.0	
	179)				454)			

1901	τ Bootis. $4^m.6$. AR.		τ Bootis. Decl. +		η Ursae maj. $2^m.0$. AR.		η Ursae maj. Decl. +	
	$13^h\ 42^m$		$17°\ 56'$		$13^h\ 43^m$		$49°\ 47'$	
Jan. 0	33.86	33	49.5	22	38.25	42	66.9	19
10	34.19	32	47.3	18	38.67	43	65.0	14
20	34.51	32	45.5	15	39.10	42	63.6	8
30	34.83	30	44.0	10	39.52	41	62.8	1
Febr. 9	35.13	27	43.0	6	39.93	36	62.7	4
19	35.40	25	42.4	3	40.29	33	63.1	10
März 1	35.65	20	42.1	2	40.62	27	64.1	16
11	35.85	17	42.3	6	40.89	22	65.7	20
21	36.02	13	42.9	9	41.11	16	67.7	23
31	36.15	10	43.8	11	41.27	10	70.0	26
April 10	36.25	6	44.9	14	41.37	5	72.6	27
20	36.31	3	46.3	15	41.42	0	75.3	28
30	36.34	0	47.8	15	41.42	6	78.1	27
Mai 10	36.34	2	49.3	15	41.36	10	80.8	25
20	36.32	5	50.8	15	41.26	13	83.3	23
30	36.27	7	52.3	14	41.13	17	85.6	20
Juni 9	36.20	9	53.7	13	40.96	20	87.6	17
19	36.11	11	55.0	11	40.76	22	89.3	12
29	36.00	12	56.1	9	40.54	24	90.5	8
Juli 9	35.88	13	57.0	6	40.30	25	91.3	3
19	35.75	14	57.6	4	40.05	25	91.6	1
29	35.61	15	58.0	2	39.80	25	91.5	6
Aug. 8	35.46	13	58.2	1	39.55	24	90.9	10
18	35.33	13	58.1	4	39.31	23	89.9	15
28	35.20	12	57.7	6	39.08	20	88.4	19
Sept. 7	35.08	9	57.1	10	38.88	17	86.5	23
17	34.99	6	56.1	12	38.71	13	84.2	26
27	34.93	3	54.9	14	38.58	8	81.6	29
Oct. 7	34.90	1	53.5	18	38.50	2	78.7	32
17	34.91	7	51.7	22	38.48	4	75.5	37
27	[21] 34.98	11	49.5	22	[21] 38.52	11	71.8	35
Nov. 6	35.09	15	47.3	24	38.63	17	68.3	35
16	35.24	21	44.9	25	38.80	23	64.8	34
26	35.45	25	42.4	25	39.03	29	61.4	33
Dec. 6	35.70	28	39.9	25	39.32	35	58.1	30
16	35.98	30	37.4	24	39.67	39	55.1	26
26	36.28	32	35.0	23	40.06	41	52.5	22
36	36.60		32.7		40.47		50.3	
Mittl. Ort	33.46		60.2		38.48		86.2	
	180)				181)			

1901	89 Virginis. $5^m.0$				η Bootis. $3^m.0$				τ Virginis. $4^m.0$				11 Bootis. $6^m.0$			
	AR.		Decl. —		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$13^h\ 44^m$		17° 38′		$13^h\ 49^m$		18° 53′		$13^h\ 56^m$		2° 1′		$13^h\ 56^m$		27° 51′	
Jan. 0	30.11	34	27.6	18	58.59	33	27.6	22	36.88	32	18.7	20	41.33	34	39.7	22
10	30.45	34	29.4	18	58.92	33	25.4	18	37.20	32	16.7	20	41.67	34	37.5	18
20	30.79	32	31.2	19	59.25	32	23.6	15	37.52	31	14.7	17	42.01	34	35.7	13
30	31.11	31	33.1	19	59.57	30	22.1	11	37.83	30	13.0	14	42.35	32	34.4	9
Febr. 9	31.42	28	35.0	18	59.87	28	21.0	6	38.13	27	11.6	12	42.67	30	33.5	4
19	31.70	25	36.8	16	60.15	25	20.4	2	38.40	25	10.4	9	42.97	26	33.1	1
März 1	31.95	21	38.4	15	60.40	22	20.2	2	38.65	21	9.5	6	43.23	23	33.2	6
11	32.16	18	39.9	13	60.62	17	20.4	6	38.86	18	8.9	3	43.46	19	33.8	10
21	32.34	14	41.2	12	60.79	14	21.0	9	39.04	15	8.6	0	43.65	15	34.8	14
31	32.48	12	42.4	9	60.93	11	21.9	12	39.19	12	8.6	3	43.80	12	36.2	17
April 10	32.60	8	43.3	7	61.04	7	23.1	14	39.31	8	8.9	4	43.92	7	37.9	18
20	32.68	5	44.0	6	61.11	3	24.5	15	39.39	5	9.3	7	43.99	4	39.7	20
30	32.73	2	44.6	4	61.14	1	26.0	16	39.44	3	10.0	7	44.03	0	41.7	21
Mai 10	32.75	0	45.0	2	61.15	2	27.6	16	39.47	0	10.7	8	44.03	3	43.8	20
20	32.75	3	45.2	1	61.13	4	29.2	16	39.47	2	11.5	9	44.00	5	45.8	19
30	32.72	5	45.3	1	61.09	7	30.8	14	39.45	5	12.4	9	43.95	8	47.7	17
Juni 9	32.67	8	45.2	2	61.02	9	32.2	13	39.40	6	13.3	9	43.87	10	49.4	16
19	32.59	9	45.0	4	60.93	10	33.5	12	39.34	9	14.2	8	43.77	12	51.0	13
29	32.50	11	44.6	4	60.83	12	34.7	9	39.25	10	15.0	8	43.65	14	52.3	10
Juli 9	32.39	12	44.2	6	60.71	14	35.6	6	39.15	11	15.8	7	43.51	15	53.3	7
19	32.27	13	43.6	7	60.57	14	36.2	4	39.04	13	16.5	6	43.36	16	54.0	3
29	32.14	13	42.9	7	60.43	14	36.6	2	38.91	13	17.1	5	43.20	16	54.3	0
Aug. 8	32.01	13	42.2	8	60.29	14	36.8	1	38.78	13	17.6	4	43.04	16	54.3	3
18	31.88	13	41.4	9	60.15	14	36.7	4	38.65	12	18.0	2	42.88	16	54.0	6
28	31.75	11	40.5	8	60.01	12	36.3	6	38.53	12	18.2	0	42.72	14	53.4	10
Sept. 7	31.64	9	39.7	8	59.89	10	35.7	10	38.41	9	18.2	1	42.58	12	52.4	13
17	31.55	5	38.9	7	59.79	7	34.7	12	38.32	7	18.1	3	42.46	9	51.1	17
27	31.50	2	38.2	5	59.72	4	33.5	15	38.25	3	17.8	6	42.37	5	49.4	19
Oct. 7	31.48	3	37.7	4	59.68	1	32.0	18	38.22	0	17.2	8	42.32	1	47.5	22
17	31.51	8	37.3	1	59.69	6	30.2	22	38.22	6	16.4	11	42.31	4	45.3	27
27	21 31.59	12	37.2	1	23 59.75	10	28.0	23	24 38.28	10	15.3	14	24 42.35	9	42.6	27
Nov. 6	31.71	18	37.3	5	59.85	15	25.7	25	38.38	15	13.9	15	42.44	15	39.9	28
16	31.89	22	37.8	7	60.00	20	23.2	25	38.53	20	12.4	17	42.59	19	37.1	29
26	32.11	26	38.5	10	60.20	24	20.7	26	38.73	23	10.7	19	42.78	24	34.2	29
Dec. 6	32.37	30	39.5	13	60.44	27	18.1	26	38.96	27	8.8	20	43.02	28	31.3	28
16	32.67	32	40.8	15	60.71	31	15.5	24	39.23	30	6.8	21	43.30	31	28.5	26
26	32.99	33	42.3	17	61.02	32	13.1	23	39.53	32	4.7	21	43.61	33	25.9	23
36	33.32		44.0		61.34		10.8		39.85		2.6		43.94		23.6	
Mittl. Ort	29.41		28.8		58.25		38.3		36.40		23.7		41.17		52.8	
	588)				182)				183)				457)			

1901	α Draconis. 3m.3. AR.		Decl. +		d Bootis. 5m.0. AR.		Decl. +		κ Virginis. 4m.3. AR.		Decl. —		4 Ursae min. 5m.0. AR.		Decl. +	
	14h 1m		64° 50′		14h 5m		25° 33′		14h 7m		9° 48′		14h 9m		78° 0′	
Jan. 0	41.22	57	35.6	19	53.19	33	25.2	23	37.31	34	47.8	19	9.56	103	24.9	18
10	41.79	59	33.7	13	53.52	34	22.9	18	37.65	32	49.7	18	10.59	109	23.1	12
20	42.38	60	32.4	7	53.86	34	21.1	14	37.97	32	51.5	17	11.68	112	21.9	4
30	42.98	57	31.7	1	54.20	31	19.7	10	38.29	30	53.2	17	12.80	109	21.5	2
Febr. 9	43.55	54	31.8	6	54.51	30	18.7	5	38.59	29	54.9	15	13.89	104	21.7	9
19	44.09	48	32.4	13	54.81	27	18.2	0	38.88	26	56.4	13	14.93	93	22.6	15
März 1	44.57	41	33.7	19	55.08	23	18.2	4	39.14	22	57.7	11	15.86	81	24.1	21
11	44.98	34	35.6	23	55.31	20	18.6	9	39.36	20	58.8	8	16.67	66	26.2	25
21	45.32	25	37.9	27	55.51	16	19.5	13	39.56	16	59.6	6	17.33	48	28.7	28
31	45.57	16	40.6	29	55.67	12	20.8	15	39.72	13	60.2	4	17.81	29	31.5	31
April 10	45.73	7	43.5	31	55.79	8	22.3	18	39.85	10	60.6	3	18.10	11	34.6	32
20	45.80	1	46.6	32	55.87	5	24.1	19	39.95	7	60.9	0	18.21	8	37.8	32
30	45.79	10	49.8	30	55.92	1	26.0	19	40.02	4	60.9	1	18.13	26	41.0	31
Mai 10	45.69	17	52.8	28	55.93	1	27.9	20	40.06	2	60.8	2	17.87	42	44.1	29
20	45.52	24	55.6	26	55.92	4	29.9	19	40.08	1	60.6	4	17.45	58	47.0	25
30	45.28	30	58.2	22	55.88	7	31.8	17	40.07	3	60.2	4	16.87	70	49.5	22
Juni 9	44.98	34	60.4	18	55.81	9	33.5	16	40.04	6	59.8	5	16.17	80	51.7	18
19	44.64	39	62.2	13	55.72	11	35.1	13	39.98	8	59.3	5	15.37	90	53.5	12
29	44.25	42	63.5	9	55.61	13	36.4	10	39.90	10	58.8	6	14.47	95	54.7	7
Juli 9	43.83	43	64.4	3	55.48	15	37.4	8	39.80	11	58.2	6	13.52	99	55.4	2
19	43.40	44	64.7	1	55.33	15	38.2	5	39.69	12	57.6	6	12.53	101	55.6	3
29	42.96	44	64.6	8	55.18	16	38.7	1	39.57	14	57.0	7	11.52	101	55.3	9
Aug. 8	42.52	43	63.8	12	55.02	16	38.8	2	39.43	13	56.3	6	10.51	97	54.4	14
18	42.09	41	62.6	17	54.86	16	38.6	5	39.30	13	55.7	5	9.54	92	53.0	19
28	41.68	37	60.9	21	54.70	14	38.1	8	39.17	12	55.2	5	8.62	85	51.1	23
Sept. 7	41.31	32	58.8	26	54.56	12	37.3	12	39.05	10	54.7	4	7.77	75	48.8	27
17	40.99	27	56.2	29	54.44	10	36.1	15	38.95	8	54.3	3	7.02	63	46.1	31
27	40.72	19	53.3	33	54.34	6	34.6	18	38.87	4	54.0	1	6.39	50	43.0	34
Oct. 7	40.53	12	50.0	35	54.28	2	32.8	21	38.83	0	53.9	1	5.89	35	39.6	36
17	40.41	3	46.5	40	54.26	3	30.7	24	38.83	5	54.0	3	5.54	18	36.0	38
27	[26] 40.38	7	42.5	38	54.29	9	28.3	28	38.88	10	54.3	6	5.36	1	32.2	42
Nov. 6	40.45	16	38.7	37	[27] 54.38	13	25.5	27	[27] 38.98	15	54.9	8	[28] 5.37	20	28.0	37
16	40.61	26	35.0	37	54.51	18	22.8	28	39.13	19	55.7	11	5.57	39	24.3	36
26	40.87	35	31.3	34	54.69	23	20.0	28	39.32	24	56.8	13	5.96	56	20.7	34
Dec. 6	41.22	43	27.9	31	54.92	27	17.2	28	39.56	27	58.1	15	6.52	73	17.3	31
16	41.65	49	24.8	28	55.19	30	14.4	26	39.83	30	59.6	17	7.25	87	14.2	26
26	42.14	55	22.0	22	55.49	33	11.8	24	40.13	32	61.3	17	8.12	100	11.6	20
36	42.69		19.8		55.82		9.4		40.45		63.0		9.12		9.6	
Mittl. Ort	42.50		56.2		53.05		37.3		36.80		47.1		13.56		46.0	
	184)				458)				185)				459)			

1901	ι Virginis. 4ᵐ.0. AR.		Decl. −		α Bootis. 1ᵐ. AR.		Decl. +	
	14ʰ 10ᵐ		5° 31′		14ʰ 11ᵐ		19° 41′	
Jan. 0	49.71	33	43.9	19	8.89	32	42.0	22
10	50.04	32	45.8	19	9.21	33	39.8	20
20	50.36	32	47.7	17	9.54	32	37.8	16
30	50.68	30	49.4	16	9.86	31	36.2	12
Febr. 9	50.98	28	51.0	14	10.17	29	35.0	7
19	51.26	26	52.4	12	10.46	26	34.3	3
März 1	51.52	23	53.6	9	10.72	23	34.0	1
11	51.75	19	54.5	7	10.95	19	34.1	6
21	51.94	16	55.2	4	11.14	16	34.7	9
31	52.10	13	55.6	1	11.30	12	35.6	12
April 10	52.23	11	55.7	0	11.42	9	36.8	14
20	52.34	7	55.7	2	11.51	6	38.2	16
30	52.41	4	55.5	4	11.57	2	39.8	16
Mai 10	52.45	2	55.1	4	11.59	0	41.4	17
20	52.47	1	54.7	5	11.59	3	43.1	16
30	52.46	3	54.2	6	11.56	6	44.7	16
Juni 9	52.43	6	53.6	7	11.50	8	46.3	14
19	52.37	7	52.9	6	11.42	10	47.7	12
29	52.30	10	52.3	7	11.32	12	48.9	10
Juli 9	52.20	11	51.6	6	11.20	13	49.9	7
19	52.09	13	51.0	6	11.07	15	50.6	5
29	51.96	13	50.4	6	10.92	15	51.1	2
Aug. 8	51.83	14	49.8	5	10.77	15	51.3	0
18	51.69	13	49.3	4	10.62	15	51.3	4
28	51.56	12	48.9	4	10.47	14	50.9	6
Sept. 7	51.44	10	48.5	2	10.33	12	50.3	10
17	51.34	8	48.3	0	10.21	10	49.3	12
27	51.26	4	48.3	1	10.11	6	48.1	16
Oct. 7	51.22	1	48.4	4	10.05	2	46.5	18
17	51.21	4	48.8	6	10.03	2	44.7	21
27	51.25	10	49.4	9	10.05	9	42.6	25
Nov. 6	[28] 51.35	14	50.3	10	[28] 10.14	12	40.1	25
16	51.49	19	51.3	14	10.26	18	37.6	26
26	51.68	23	52.7	15	10.44	22	35.0	27
Dec. 6	51.91	27	54.2	17	10.66	26	32.3	27
16	52.18	29	55.9	18	10.92	29	29.6	26
26	52.47	31	57.7	19	11.21	31	27.0	24
36	52.78		59.6		11.52		24.6	
Mittl. Ort	49.25		41.9		8.70		52.2	
	186)				187)			

1901	λ Bootis. 4ᵐ.0. AR.		Decl. +		ϑ Bootis. 3ᵐ.8. AR.		Decl. +	
	14ʰ 12ᵐ		46° 32′		14ʰ 21ᵐ		52° 17′	
Jan. 0	36.81	39	16.8	22	48.87	42	72.2	23
10	37.20	41	14.6	17	49.29	43	69.9	17
20	37.61	40	12.9	12	49.72	45	68.2	12
30	38.01	39	11.7	5	50.17	43	67.0	5
Febr. 9	38.40	36	11.2	1	50.60	40	66.5	1
19	38.76	34	11.3	7	51.00	37	66.6	8
März 1	39.10	29	12.0	12	51.37	33	67.4	13
11	39.39	24	13.2	17	51.70	28	68.7	18
21	39.63	19	14.9	21	51.98	22	70.5	23
31	39.82	14	17.0	25	52.20	16	72.8	26
April 10	39.96	9	19.5	26	52.36	10	75.4	28
20	40.05	4	22.1	28	52.46	5	78.2	29
30	40.09	1	24.9	27	52.51	1	81.1	29
Mai 10	40.08	5	27.6	26	52.50	6	84.0	28
20	40.03	9	30.2	25	52.44	11	86.8	26
30	39.94	13	32.7	23	52.33	15	89.4	24
Juni 9	39.81	16	35.0	19	52.18	19	91.8	20
19	39.65	19	36.9	15	51.99	22	93.8	17
29	39.46	21	38.4	12	51.77	25	95.5	12
Juli 9	39.25	23	39.6	7	51.52	27	96.7	7
19	39.02	24	40.3	2	51.25	28	97.4	3
29	38.78	24	40.5	2	50.97	29	97.7	2
Aug. 8	38.54	24	40.3	6	50.68	29	97.5	7
18	38.30	23	39.7	11	50.39	28	96.8	12
28	38.07	22	38.6	15	50.11	26	95.6	16
Sept. 7	37.85	19	37.1	19	49.85	24	94.0	20
17	37.66	16	35.2	23	49.61	19	92.0	25
27	37.50	11	32.9	27	49.42	15	89.5	28
Oct. 7	37.39	6	30.2	29	49.27	10	86.7	31
17	37.33	1	27.3	32	49.17	3	83.6	34
27	37.32	7	24.1	38	49.14	4	80.2	38
Nov. 6	[29] 37.39	12	20.3	34	[31] 49.18	11	76.4	36
16	37.51	19	16.9	35	49.29	18	72.8	36
26	37.70	24	13.4	33	49.47	25	69.2	35
Dec. 6	37.94	30	10.1	32	49.72	31	65.7	32
16	38.24	35	6.9	28	50.03	36	62.5	29
26	38.59	38	4.1	25	50.39	40	59.6	26
36	38.97		1.6		50.79		57.0	
Mittl. Ort	37.20		33.7		49.57		89.7	
	188)				190)			

1901	ρ Bootis. $3^m.6$. AR.		ρ Bootis. Decl. +		γ Bootis. $2^m.9$. AR.		γ Bootis. Decl. +		π Bootis pr. $4^m.3$. AR.		π Bootis pr. Decl. +		μ Virginis. $4^m.0$. AR.		μ Virginis. Decl. −	
	$14^h 27^m$		30° 47′		$14^h 28^m$		38° 43′		$14^h 36^m$		16° 50′		$14^h 37^m$		5° 13′	
	s		″		s		″		s		″		s		″	
Jan. 0	33.72	33	68.7	24	5.21	35	73.7	24	4.44	31	23.9	22	50.79	31	41.9	18
10	34.05	34	66.3	19	5.56	37	71.3	19	4.75	32	21.7	20	51.10	32	43.7	18
20	34.39	35	64.4	15	5.93	37	69.4	14	5.07	32	19.7	17	51.42	32	45.5	17
30	34.74	33	62.9	10	6.30	35	68.0	9	5.39	31	18.0	12	51.74	31	47.2	15
Febr. 9	35.07	31	61.9	5	6.65	34	67.1	2	5.70	30	16.8	9	52.05	29	48.7	13
19	35.38	29	61.4	1	6.99	31	66.9	3	6.00	28	15.9	4	52.34	27	50.0	11
März 1	35.67	26	61.5	6	7.30	28	67.2	8	6.28	24	15.5	0	52.61	25	51.1	8
11	35.93	22	62.1	10	7.58	24	68.0	14	6.52	21	15.5	4	52.86	21	51.9	6
21	36.15	19	63.1	14	7.82	19	69.4	17	6.73	19	15.9	8	53.07	19	52.5	4
31	36.34	14	64.5	18	8.01	15	71.1	21	6.92	15	16.7	11	53.26	16	52.9	1
April 10	36.48	11	66.3	20	8.16	11	73.2	24	7.07	11	17.8	13	53.42	12	53.0	1
20	36.59	7	68.3	22	8.27	6	75.6	25	7.18	9	19.1	15	53.54	10	52.9	3
30	36.66	3	70.5	23	8.33	2	78.1	26	7.27	5	20.6	17	53.64	7	52.6	4
Mai 10	36.69	0	72.8	22	8.35	1	80.7	25	7.32	2	22.3	17	53.71	4	52.2	6
20	36.69	4	75.0	22	8.34	5	83.2	24	7.34	0	24.0	17	53.75	2	51.6	6
30	36.65	6	77.2	20	8.29	8	85.6	22	7.34	3	25.7	16	53.77	1	51.0	6
Juni 9	36.59	9	79.2	18	8.21	12	87.8	20	7.31	6	27.3	15	53.76	4	50.4	7
19	36.50	12	81.0	16	8.09	14	89.8	17	7.25	8	28.8	13	53.72	6	49.7	7
29	36.38	13	82.6	13	7.95	16	91.5	13	7.17	11	30.1	12	53.66	9	49.0	6
Juli 9	36.25	16	83.9	9	7.79	19	92.8	9	7.06	12	31.3	9	53.57	10	48.4	7
19	36.09	17	84.8	6	7.60	20	93.7	5	6.94	14	32.2	7	53.47	13	47.7	6
29	35.92	18	85.4	2	7.40	21	94.2	1	6.80	15	32.9	4	53.34	13	47.1	5
Aug. 8	35.74	18	85.6	2	7.19	21	94.3	3	6.65	16	33.3	2	53.21	14	46.6	6
18	35.56	18	85.4	5	6.98	20	94.0	7	6.49	16	33.5	1	53.07	15	46.0	4
28	35.38	17	84.9	9	6.78	20	93.3	12	6.33	14	33.4	4	52.92	14	45.6	3
Sept. 7	35.21	15	84.0	12	6.58	18	92.1	15	6.19	14	33.0	7	52.78	12	45.3	2
17	35.06	13	82.8	16	6.40	14	90.6	19	6.05	11	32.3	9	52.66	9	45.1	0
27	34.93	9	81.2	20	6.26	11	88.7	23	5.94	7	31.4	13	52.57	7	45.1	1
Oct. 7	34.84	5	79.2	22	6.15	6	86.4	26	5.87	4	30.1	15	52.50	3	45.2	3
17	34.79	0	77.0	25	6.09	2	83.8	28	5.83	0	28.6	18	52.47	1	45.5	6
27	34.79	5	74.5	31	6.07	5	81.0	34	5.83	6	26.8	23	52.48	7	46.1	9
Nov. 6	34.84	11	71.4	29	6.12	10	77.6	32	5.89	10	24.5	23	52.55	12	47.0	10
16	34.95	16	68.5	30	6.22	16	74.4	33	5.99	15	22.2	24	52.67	16	48.0	13
26	35.11	21	65.5	30	6.38	22	71.1	33	6.14	20	19.8	25	52.83	21	49.3	15
Dec. 6	35.32	26	62.5	30	6.60	26	67.8	31	6.34	24	17.3	26	53.04	25	50.8	16
16	35.58	29	59.5	27	6.86	31	64.7	29	6.58	28	14.7	24	53.29	28	52.4	17
26	35.87	32	56.8	26	7.17	34	61.8	26	6.86	30	12.3	24	53.57	30	54.1	19
36	36.19		54.2		7.51		59.2		7.16		9.9		53.87		56.0	
Mittl. Ort	33.81		81.1		5.49		88.0		4.35		32.0		50.47		40.6	
	192)				193)				194)				196)			

1901	109 Virginis. $3^m.6$.				α Librae. $2^m.3$.				Gr. 2164. $5^m.8$.				β Ursae min. $2^m.0$.			
	AR.		Decl. +		AR.		Decl. —		AR.		Decl. +		AR.		Decl. +	
	$14^h\ 41^m$		$2°\ 18'$		$14^h\ 45^m$		$15°\ 37'$		$14^h\ 48^m$		$59°\ 41'$		$14^h\ 50^m$		$74°\ 33'$	
Jan. 0	$14^s.76$		$31''.9$		$24^s.32$		$48''.6$		$54^s.15$		$30''.6$		$55^s.57$		$18''.1$	
		31		20		32		15		45		25		75		23
10	15.07		29.9		24.64		50.1		54.60		28.1		56.32		15.8	
		32		18		33		15		49		19		83		17
20	15.39		28.1		24.97		51.6		55.09		26.2		57.15		14.1	
		31		17		33		16		50		13		86		11
30	15.70		26.4		25.30		53.2		55.59		24.9		58.01		13.0	
		31		14		32		16		50		7		88		4
Febr. 9	16.01		25.0		25.62		54.8		56.09		24.2		58.89		12.6	—
		29		12		31		14		49		0		86		2
19	16.30		23.8		25.93		56.2		56.58		24.2		59.75		12.8	
		27		9		28		14		46		7		81		9
März 1	16.57		22.9		26.21		57.6		57.04		24.9		60.56		13.7	
		24		5		26		11		41		13		74		16
11	16.81		22.4		26.47		58.7		57.45		26.2		61.30		15.3	
		22		2		23		10		36		19		63		21
21	17.03		22.2	—	26.70		59.7		57.81		28.1		61.93		17.4	
		18		1		20		8		30		23		51		25
31	17.21		22.3		26.90		60.5		58.11		30.4		62.44		19.9	
		16		3		17		7		23		27		38		29
April 10	17.37		22.6		27.07		61.2		58.34		33.1		62.82		22.8	
		13		6		15		5		15		29		25		31
20	17.50		23.2		27.22		61.7		58.49		36.0		63.07		25.9	
		9		7		11		3		9		31		9		33
30	17.59		23.9		27.33		62.0		58.58		39.1		63.16	—	29.2	
		7		9		8		2		2		32		4		32
Mai 10	17.66		24.8		27.41		62.2		58.60	—	42.3		63.12		32.4	
		4		10		6		0		5		30		18		31
20	17.70		25.8		27.47		62.2		58.55		45.3		62.94		35.5	
		1		10		3		1		12		29		31		30
30	17.71	—	26.8		27.50	—	62.1		58.43		48.2		62.63		38.5	
		1		10		1		1		17		27		42		26
Juni 9	17.70		27.8		27.49		62.0		58.26		50.9		62.21		41.1	
		4		10		3		2		23		23		53		23
19	17.66		28.8		27.46		61.8		58.03		53.2		61.68		43.4	
		7		10		6		3		27		19		61		18
29	17.59		29.8		27.40		61.5		57.76		55.1		61.07		45.2	
		8		8		8		4		31		15		69		14
Juli 9	17.51		30.6		27.32		61.1		57.45		56.6		60.38		46.6	
		11		8		11		5		34		11		74		8
19	17.40		31.4		27.21		60.6		57.11		57.7		59.64		47.4	
		13		7		12		5		37		5		78		3
29	17.27		32.1		27.09		60.1		56.74		58.2		58.86		47.7	—
		13		5		14		5		38		0		80		2
Aug. 8	17.14		32.6		26.95		59.6		56.36		58.2		58.06		47.5	
		15		4		15		6		38		5		80		7
18	16.99		33.0		26.80		59.0		55.98		57.7		57.26		46.8	
		14		3		15		6		38		10		79		13
28	16.85		33.3		26.65		58.4		55.60		56.7		56.47		45.5	
		14		1		15		6		36		15		74		17
Sept. 7	16.71		33.4	—	26.50		57.8		55.24		55.2		55.73		43.8	
		13		1		12		6		34		19		69		22
17	16.58		33.3		26.38		57.2		54.90		53.3		55.04		41.6	
		10		4		11		5		30		24		62		26
27	16.48		32.9		26.27		56.7		54.60		50.9		54.42		39.0	
		7		5		8		4		24		27		53		30
Oct. 7	16.41		32.4		26.19		56.3		54.36		48.2		53.89		36.0	
		4		7		4		2		18		31		41		33
17	16.37		31.7		26.15	—	56.1		54.18		45.1		53.48		32.7	
		0		10		1		1		12		34		30		35
27	16.37		30.7		26.16		56.0	—	54.06		41.7		53.18		29.2	
		7		14		6		1		3		36		15		38
Nov. 6	[5] 16.44		29.3		26.22		56.1		54.03	—	38.1		53.03	—	25.4	
		10		14		12		4		6		41		1		41
16	16.54		27.9		[6] 26.34		56.5		[7] 54.09		34.0		[7] 53.04		21.3	
		16		17		17		6		14		37		16		38
26	16.70		26.2		26.51		57.1		54.23		30.3		53.20		17.5	
		20		19		21		8		22		36		32		36
Dec. 6	16.90		24.3		26.72		57.9		54.45		26.7		53.52		13.9	
		24		19		25		11		30		35		46		34
16	17.14		22.4		26.97		59.0		54.75		23.2		53.98		10.5	
		27		20		29		13		38		31		59		31
26	17.41		20.4		27.26		60.3		55.13		20.1		54.57		7.4	
		30		20		31		14		42		27		71		25
36	17.71		18.4		27.57		61.7		55.55		17.4		55.28		4.9	
Mittl. Ort	14.53		35.6		23.97		50.6		55.56		47.3		59.35		36.0	
	197)				590)				462)				198)			

1901	P. XIV. 221. 6^m.0. AR.		Decl. +		β Bootis. 3^m.0. AR.		Decl. +		γ Scorpii. 3^m.4. AR.		Decl. —		ψ Bootis. 4^m.3. AR.		Decl. +	
	14^h 51^m		14° 50′		14^h 58^m		40° 46′		14^h 58^m		24° 53′		15^h 0^m		27° 19′	
Jan. 0	32.90	31	40.2	22	12.46	34	38.4	26	16.73	34	30.2	11	11.96	31	50.8	25
10	33.21	31	38.0	20	12.80	35	35.8	22	17.07	34	31.3	12	12.27	33	48.3	22
20	33.52	32	36.0	17	13.15	37	33.6	16	17.41	35	32.5	14	12.60	33	46.1	17
30	33.84	31	34.3	13	13.52	37	32.0	11	17.76	34	33.9	15	12.93	33	44.4	12
Febr. 9	34.15	30	33.0	9	13.89	36	30.9	4	18.10	33	35.4	14	13.26	31	43.2	8
19	34.45	28	32.1	6	14.25	33	30.5	1	18.43	31	36.8	15	13.57	30	42.4	2
März 1	34.73	25	31.5	1	14.58	30	30.6	7	18.74	28	38.3	14	13.87	27	42.2	3
11	34.98	22	31.4	3	14.88	27	31.3	12	19.02	25	39.7	13	14.14	24	42.5	8
21	35.20	20	31.7	7	15.15	23	32.5	17	19.27	23	41.0	11	14.38	21	43.3	11
31	35.40	16	32.4	10	15.38	19	34.2	21	19.50	19	42.1	11	14.59	18	44.4	16
April 10	35.56	13	33.4	12	15.57	14	36.3	24	19.69	16	43.2	9	14.77	14	46.0	19
20	35.69	10	34.6	15	15.71	10	38.7	26	19.85	14	44.1	9	14.91	11	47.9	21
30	35.79	7	36.1	16	15.81	6	41.3	27	19.99	10	45.0	7	15.02	7	50.0	22
Mai 10	35.86	4	37.7	16	15.87	2	44.0	27	20.09	7	45.7	5	15.09	3	52.2	22
20	35.90	1	39.3	17	15.89	3	46.7	27	20.16	4	46.2	5	15.12	0	54.4	22
30	35.91	1	41.0	16	15.86	6	49.4	25	20.20	1	46.7	3	15.12	3	56.6	21
Juni 9	35.90	5	42.6	15	15.80	10	51.9	22	20.21	2	47.0	3	15.09	6	58.7	19
19	35.85	7	44.1	13	15.70	13	54.1	19	20.19	6	47.3	1	15.03	8	60.6	18
29	35.78	9	45.4	12	15.57	16	56.0	16	20.13	8	47.4	1	14.95	12	62.4	14
Juli 9	35.69	12	46.6	10	15.41	18	57.6	12	20.05	11	47.3	2	14.83	14	63.8	12
19	35.57	13	47.6	8	15.23	21	58.8	8	19.94	13	47.1	3	14.69	16	65.0	8
29	35.44	15	48.4	5	15.02	22	59.6	4	19.81	15	46.8	4	14.53	17	65.8	5
Aug. 8	35.29	16	48.9	3	14.80	24	60.0	1	19.66	16	46.4	6	14.36	19	66.3	2
18	35.13	16	49.2	0	14.56	23	59.9	5	19.50	16	45.8	7	14.17	18	66.5	2
28	34.97	15	49.2	2	14.33	22	59.4	9	19.34	16	45.1	7	13.99	18	66.3	6
Sept. 7	34.82	14	49.0	6	14.11	21	58.5	14	19.18	15	44.4	9	13.81	17	65.7	9
17	34.68	12	48.4	8	13.90	18	57.1	17	19.03	12	43.5	8	13.64	15	64.8	12
27	34.56	10	47.6	11	13.72	15	55.4	22	18.91	9	42.7	8	13.49	12	63.6	16
Oct. 7	34.46	5	46.5	14	13.57	11	53.2	25	18.82	5	41.9	8	13.37	8	62.0	20
17	34.41	1	45.1	16	13.46	6	50.7	28	18.77	1	41.1	6	13.29	3	60.0	23
27	34.40	3	43.5	19	13.40	0	47.9	30	18.76	5	40.5	5	13.26	1	57.7	25
Nov. 6	34.43	9	41.6	24	13.40	6	44.9	36	18.81	12	40.0	3	13.27	8	55.2	30
16	34.52	14	39.2	23	13.46	12	41.3	33	18.93	17	39.7	0	13.35	12	52.2	28
26	34.66	19	36.9	24	13.58	18	38.0	34	19.10	21	39.7	3	13.47	18	49.4	30
Dec. 6	34.85	23	34.5	25	13.76	24	34.6	32	19.31	26	40.0	5	13.65	22	46.4	29
16	35.08	26	32.0	24	14.00	29	31.4	31	19.57	29	40.5	8	13.87	26	43.5	28
26	35.34	29	29.6	23	14.29	32	28.3	28	19.86	32	41.3	10	14.13	30	40.7	26
36	35.63		27.3		14.61		25.5		20.18		42.3		14.43		38.1	
Mittl. Ort	32.87		47.1		13.00		51.2		16.39		35.1		12.18		60.4	
	463)				199)				591)				465)			

1901	δ Bootis. $3^m.0$.				β Librae. $2^m.0$.				1 H. Urs. min. $5^m.3$.				μ Bootis. $3^m.8$.			
	AR.		Decl. +		AR.		Decl. −		AR.		Decl. +		AR.		Decl. +	
	$15^h\ 11^m$		$33°\ 40'$		$15^h\ 11^m$		$9°\ 1'$		$15^h\ 13^m$		$67°\ 42'$		$15^h\ 20^m$		$37°\ 43'$	
Jan. 0	$30.^s29$	31	$52.''3$	26	$40.^s86$	30	$3.''5$	15	$27.^s28$	53	$65.''8$	26	$44.^s36$	31	$16.''1$	26
10	30.60	33	49.7	22	41.16	31	5.0	16	27.81	59	63.2	21	44.67	34	13.5	23
20	30.93	35	47.5	18	41.47	32	6.6	16	28.40	62	61.1	15	45.01	35	11.2	18
30	31.28	34	45.7	12	41.79	32	8.2	14	29.02	64	59.6	8	45.36	35	9.4	13
Febr. 9	31.62	33	44.5	7	42.11	30	9.6	13	29.66	63	58.8	2	45.71	35	8.1	7
19	31.95	32	43.8	2	42.41	29	10.9	11	30.29	61	58.6	— 5	46.06	33	7.4	1
März 1	32.27	29	43.6	— 4	42.70	27	12.0	8	30.90	56	59.1	12	46.39	31	7.3	— 4
11	32.56	26	44.0	9	42.97	24	12.8	6	31.46	50	60.3	18	46.70	28	7.7	10
21	32.82	23	44.9	14	43.21	22	13.4	5	31.96	42	62.1	23	46.98	24	8.7	15
31	33.05	19	46.3	18	43.43	19	13.9	2	32.38	34	64.4	26	47.22	20	10.2	19
April 10	33.24	15	48.1	21	43.62	16	14.1	0	32.72	25	67.0	30	47.42	17	12.1	22
20	33.39	12	50.2	24	43.78	13	14.1	1	32.97	15	70.0	31	47.59	13	14.3	25
30	33.51	8	52.6	24	43.91	11	14.0	3	33.12	5	73.1	33	47.72	9	16.8	27
Mai 10	33.59	4	55.0	25	44.02	8	13.7	4	33.17	— 5	76.4	32	47.81	4	19.5	27
20	33.63	0	57.5	25	44.10	4	13.3	5	33.12	13	79.6	31	47.85	1	22.2	26
30	33.63	3	60.0	24	44.14	2	12.8	5	32.99	22	82.7	29	47.86	— 3	24.8	26
Juni 9	33.60	6	62.4	22	44.16	— 1	12.3	6	32.77	30	85.6	25	47.83	7	27.4	23
19	33.54	10	64.6	19	44.15	4	11.7	6	32.47	37	88.1	21	47.76	10	29.7	21
29	33.44	12	66.5	16	44.11	7	11.1	6	32.10	42	90.2	17	47.66	14	31.8	18
Juli 9	33.32	16	68.1	13	44.04	9	10.5	5	31.68	48	91.9	13	47.52	17	33.6	14
19	33.16	17	69.4	10	43.95	12	10.0	6	31.20	51	93.2	7	47.35	19	35.0	10
29	32.99	19	70.4	5	43.83	14	9.4	5	30.69	54	93.9	3	47.16	21	36.0	7
Aug. 8	32.80	21	70.9	2	43.69	14	8.9	5	30.15	55	94.2	— 3	46.95	22	36.7	2
18	32.59	21	71.1	— 2	43.55	16	8.4	5	29.60	55	93.9	9	46.73	23	36.9	— 2
28	32.38	20	70.9	7	43.39	15	7.9	4	29.05	54	93.0	13	46.50	22	36.7	7
Sept. 7	32.18	20	70.2	10	43.24	15	7.5	3	28.51	50	91.7	18	46.28	22	36.0	11
17	31.98	17	69.2	14	43.09	12	7.2	2	28.01	46	89.9	23	46.06	19	34.9	14
27	31.81	14	67.8	18	42.97	9	7.0	1	27.55	41	87.6	27	45.87	16	33.5	19
Oct. 7	31.67	10	66.0	22	42.88	7	6.9	— 1	27.14	32	84.9	30	45.71	12	31.6	22
17	31.57	6	63.8	24	42.81	2	7.0	3	26.82	24	81.9	34	45.59	8	29.4	26
27	31.51	1	61.4	28	42.79	— 3	7.3	4	26.58	14	78.5	36	45.51	3	26.8	28
Nov. 6	31.50	— 6	58.6	32	42.82	9	7.7	8	26.44	4	74.9	41	45.48	— 4	24.0	34
16	[12] 31.56	11	55.4	31	[12] 42.91	13	8.5	9	[13] 26.40	— 9	70.8	38	[15] 45.52	9	20.6	33
26	31.67	16	52.3	32	43.04	18	9.4	12	26.49	19	67.0	37	45.61	15	17.3	32
Dec. 6	31.83	22	49.1	31	43.22	22	10.6	13	26.68	31	63.3	35	45.76	21	14.1	33
16	32.05	25	46.0	30	43.44	26	11.9	14	26.99	41	59.8	33	45.97	25	10.8	31
26	32.30	30	43.0	28	43.70	30	13.3	16	27.40	49	56.5	29	46.22	30	7.7	28
36	32.60		40.2		44.00		14.9		27.89		53.6		46.52		4.9	
Mittl. Ort	30.71		62.7		40.68		4.2		29.90		81.3		44.94		26.8	
	201)				200)				467)				202)			

1901	γ Ursae min. $3^m.0$. AR.	Diff.	Decl. +	Diff.	ι Draconis. $3^m.0$. AR.	Diff.	Decl. +	Diff.	β Coron. bor. $3^m.8$. AR.	Diff.	Decl. +	Diff.	ν^1 Bootis. $4^m.5$. AR.	Diff.	Decl. +	Diff.
	$15^h\ 20^m$		$72°\ 10'$		$15^h\ 22^m$		$59°\ 18'$		$15^h\ 23^m$		$29°\ 26'$		$15^h\ 27^m$		$41°\ 9'$	
Jan. 0	$49^s.55$	61	$55''.5$	26	$41^s.82$	41	$32''.4$	28	$44^s.47$	29	$39''.2$	26	$21^s.66$	32	$62''.2$	27
10	50.16	69	52.9	21	42.23	45	29.6	22	44.76	32	36.6	22	21.98	35	59.5	24
20	50.85	74	50.8	15	42.68	49	27.4	17	45.08	33	34.4	19	22.33	36	57.1	19
30	51.59	77	49.3	8	43.17	49	25.7	11	45.41	33	32.5	14	22.69	36	55.2	13
Febr. 9	52.36	76	48.5	2	43.66	49	24.6	4	45.74	33	31.1	8	23.05	36	53.9	7
19	53.12	74	48.3	— 5	44.15	47	24.2	— 3	46.07	31	30.3	3	23.41	35	53.2	1
März 1	53.86	69	48.8	12	44.62	44	24.5	9	46.38	29	30.0	— 2	23.76	32	53.1	— 5
11	54.55	61	50.0	17	45.06	40	25.4	16	46.67	26	30.2	7	24.08	29	53.6	11
21	55.16	53	51.7	23	45.46	35	27.0	20	46.93	23	30.9	12	24.37	26	54.7	16
31	55.69	42	54.0	27	45.81	28	29.0	25	47.16	20	32.1	16	24.63	22	56.3	20
April 10	56.11	31	56.7	30	46.09	21	31.5	28	47.36	16	33.7	19	24.85	18	58.3	23
20	56.42	18	59.7	32	46.30	15	34.3	31	47.52	13	35.6	22	25.03	14	60.6	26
30	56.60	6	62.9	33	46.45	8	37.4	32	47.65	10	37.8	23	25.17	9	63.2	27
Mai 10	56.66	— 6	66.2	33	46.53	1	40.6	32	47.75	6	40.1	24	25.26	5	65.9	28
20	56.60	17	69.5	31	46.54	— 6	43.8	31	47.81	2	42.5	24	25.31	1	68.7	28
30	56.43	28	72.6	28	46.48	12	46.9	29	47.83	— 1	44.9	23	25.32	— 3	71.5	27
Juni 9	56.15	38	75.4	26	46.36	18	49.8	26	47.82	5	47.2	22	25.29	8	74.2	24
19	55.77	47	78.0	23	46.18	23	52.4	23	47.77	8	49.4	19	25.21	11	76.6	22
29	55.30	55	80.3	17	45.95	28	54.7	19	47.69	11	51.3	17	25.10	14	78.8	19
Juli 9	54.75	61	82.0	13	45.67	32	56.6	14	47.58	13	53.0	14	24.96	18	80.7	15
19	54.14	65	83.3	8	45.35	36	58.0	10	47.45	16	54.4	10	24.78	20	82.2	11
29	53.49	69	84.1	3	44.99	38	59.0	5	47.29	18	55.4	7	24.58	23	83.3	7
Aug. 8	52.80	71	84.4	— 3	44.61	39	59.5	— 1	47.11	19	56.1	3	24.35	24	84.0	2
18	52.09	71	84.1	7	44.22	39	59.4	5	46.92	20	56.4	0	24.11	24	84.2	— 2
28	51.38	69	83.4	13	43.83	39	58.9	10	46.72	20	56.4	4	23.87	25	84.0	6
Sept. 7	50.69	65	82.1	18	43.44	37	57.9	16	46.52	19	56.0	9	23.62	23	83.4	11
17	50.04	60	80.3	22	43.07	34	56.3	20	46.33	17	55.1	12	23.39	21	82.3	15
27	49.44	53	78.1	27	42.73	30	54.3	24	46.16	14	53.9	15	23.18	18	80.8	19
Oct. 7	48.91	44	75.4	30	42.43	24	51.9	29	46.02	11	52.4	19	23.00	14	78.9	23
17	48.47	34	72.4	33	42.19	18	49.0	31	45.91	7	50.5	22	22.86	10	76.6	27
27	48.13	22	69.1	36	42.01	10	45.9	34	45.84	1	48.3	25	22.76	4	73.9	29
Nov. 6	47.91	10	65.5	41	41.91	1	42.5	40	45.83	— 4	45.8	31	22.72	— 1	71.0	32
16	(15) 47.81	— 6	61.4	38	(15) 41.90	— 7	38.5	37	(15) 45.87	10	42.7	29	22.73	9	67.8	37
26	47.87	19	57.6	36	41.97	16	34.8	37	45.97	15	39.8	30	(16) 22.82	15	64.1	34
Dec. 6	48.06	33	54.0	36	42.13	24	31.1	36	46.12	20	36.8	30	22.97	20	60.7	33
16	48.39	45	50.4	33	42.37	31	27.5	33	46.32	24	33.8	29	23.17	25	57.4	32
26	48.84	55	47.1	29	42.68	38	24.2	31	46.56	28	30.9	27	23.42	29	54.2	29
36	49.39		44.2		43.06		21.1		46.84		28.2		23.71		51.3	
Mittl. Ort	53.18		70.7		43.53		46.3		44.86		47.9		22.40		73.0	
	203)				204)				205)				206)			

1901	γ Librae. 4ᵐ.3. AR.		γ Librae. Decl. −		α Coron. bor. 2ᵐ.0. AR.		α Coron. bor. Decl. +		α Serpentis. 2ᵐ.3. AR.		α Serpentis. Decl. +		β Serpentis. 3ᵐ.3. AR.		β Serpentis. Decl. +	
	15ʰ 29ᵐ		14° 27′		15ʰ 30ᵐ		27° 2′		15ʰ 39ᵐ		6° 44′		15ʰ 41ᵐ		15° 43′	
Jan. 0	59.37		31.3		29.39		43.8		23.34		10.3		36.81		49.0	
10	59.66	29	32.6	13	29.68	29	41.3	25	23.62	28	8.2	21	37.09	28	46.7	23
20	59.98	32	33.9	13	29.99	31	39.0	23	23.92	30	6.3	19	37.39	30	44.6	21
30	60.31	33	35.3	14	30.32	33	37.1	19	24.22	30	4.6	17	37.69	30	42.7	19
Febr. 9	60.63	32	36.6	13	30.64	32	35.7	14	24.53	31	3.2	14	38.00	31	41.3	14
19	60.94	31	37.8	12	30.96	32	34.8	9	24.83	30	2.1	11	38.31	31	40.2	11
März 1	61.24	30	38.9	11	31.27	31	34.4	4	25.12	29	1.3	8	38.60	29	39.6	6
11	61.52	28	39.8	9	31.56	29	34.5	1	25.39	27	0.9	4	38.88	28	39.4	2
21	61.78	26	40.6	8	31.82	26	35.1	6	25.65	26	0.9	0	39.14	26	39.6	2
31	62.02	24	41.2	6	32.05	23	36.2	11	25.88	23	1.2	3	39.37	23	40.2	6
April 10	62.23	21	41.6	4	32.26	21	37.7	15	26.08	20	1.8	6	39.58	21	41.2	10
20	62.41	18	41.8	2	32.43	17	39.5	18	26.26	18	2.7	9	39.75	17	42.5	13
30	62.56	15	41.9	1	32.57	14	41.6	21	26.41	15	3.8	11	39.90	15	44.1	16
Mai 10	62.69	13	41.9	0	32.67	10	43.8	22	26.53	12	5.0	12	40.02	12	45.8	17
20	62.79	10	41.8	1	32.74	7	46.1	23	26.62	9	6.4	14	40.11	9	47.6	18
30	62.86	7	41.6	2	32.77	3	48.4	23	26.68	6	7.8	14	40.17	6	49.5	19
Juni 9	62.89	3	41.3	3	32.77	0	50.7	23	26.71	3	9.2	14	40.19	2	51.3	18
19	62.90	1	41.0	3	32.74	3	52.8	21	26.71	0	10.5	13	40.18	1	53.1	18
29	62.87	3	40.7	3	32.67	7	54.7	19	26.68	3	11.8	13	40.14	4	54.7	16
Juli 9	62.81	6	40.3	4	32.57	10	56.4	17	26.62	6	13.0	12	40.07	7	56.2	15
19	62.72	9	39.9	4	32.44	13	57.8	14	26.53	9	14.1	11	39.97	10	57.5	13
29	62.61	11	39.5	4	32.29	15	58.8	10	26.42	11	14.9	8	39.85	12	58.5	10
Aug. 8	62.48	13	39.0	5	32.12	17	59.6	8	26.28	14	15.6	7	39.70	15	59.3	8
18	62.33	15	38.5	5	31.94	18	60.0	4	26.13	15	16.2	6	39.54	16	59.8	5
28	62.17	16	38.1	4	31.74	20	60.0	0	25.97	16	16.5	3	39.36	18	60.0	2
Sept. 7	62.01	16	37.6	5	31.55	19	59.7	3	25.80	17	16.6	1	39.19	17	60.0	0
17	61.85	16	37.2	4	31.36	19	59.0	7	25.64	16	16.5	1	39.02	17	59.6	4
27	61.71	14	36.8	4	31.19	17	57.9	11	25.50	14	16.1	4	38.86	16	59.0	6
Oct. 7	61.60	11	36.5	3	31.05	14	56.5	14	25.37	13	15.5	6	38.73	13	58.1	9
17	61.53	7	36.3	2	30.94	11	54.7	18	25.28	9	14.7	8	38.63	10	56.8	13
27	61.50	3	36.2	1	30.88	6	52.6	21	25.23	5	13.6	11	38.57	6	55.3	15
Nov. 6	61.51	1	36.3	1	30.86	2	50.3	23	25.23	0	12.3	13	38.55	2	53.5	18
16	61.58	7	36.6	3	30.89	3	47.7	26	25.27	4	10.8	15	38.58	3	51.5	20
26	[17] 61.71	13	37.2	6	[17] 30.98	9	44.6	31	[19] 25.37	10	8.8	20	[20] 38.67	9	49.0	25
Dec. 6	61.88	17	38.0	8	31.12	14	41.6	30	25.51	14	6.9	19	38.81	14	46.6	24
16	62.09	21	38.9	9	31.32	20	38.7	29	25.70	19	4.8	21	38.99	18	44.1	25
26	62.35	26	40.0	11	31.56	24	35.9	28	25.93	23	2.7	21	39.21	22	41.7	24
36	62.63	28	41.2	12	31.83	27	33.2	27	26.19	26	0.7	20	39.47	26	39.3	24
Mittl. Ort	59.23		33.9		29.76		51.6		23.43		12.8		37.03		53.5	
	593)				209)				212)				213)			

1901	κ Serpentis. 4ᵐ.0. AR.		Decl. +		ρ Serpentis. 3ᵐ.3. AR.		Decl. −	
	15ʰ 44ᵐ		18° 26′		15ʰ 44ᵐ		3° 7′	
Jan. 0	16.72	28	44.8	24	27.10	28	38.2	17
10	17.00	30	42.4	22	27.38	30	39.9	16
20	17.30	30	40.2	18	27.68	30	41.5	15
30	17.60	31	38.4	15	27.98	31	43.0	14
Febr. 9	17.91	31	36.9	11	28.29	30	44.4	11
19	18.22	30	35.8	6	28.59	30	45.5	9
März 1	18.52	28	35.2	1	28.89	27	46.4	7
11	18.80	26	35.1	3	29.16	26	47.1	3
21	19.06	24	35.4	7	29.42	24	47.4	1
31	19.30	21	36.1	11	29.66	21	47.5	2
April 10	19.51	18	37.2	14	29.87	18	47.3	4
20	19.69	14	38.6	17	30.05	16	46.9	5
30	19.83	12	40.3	19	30.21	13	46.4	7
Mai 10	19.95	9	42.2	19	30.34	11	45.7	9
20	20.04	6	44.1	20	30.45	7	44.8	9
30	20.10	2	46.1	20	30.52	4	43.9	9
Juni 9	20.12	1	48.1	19	30.56	2	43.0	9
19	20.11	4	50.0	17	30.58	2	42.1	9
29	20.07	7	51.7	16	30.56	6	41.2	8
Juli 9	20.00	11	53.3	13	30.50	8	40.4	8
19	19.89	13	54.6	11	30.42	10	39.6	7
29	19.76	15	55.7	8	30.32	13	38.9	6
Aug. 8	19.61	16	56.5	5	30.19	15	38.3	5
18	19.45	18	57.0	3	30.04	16	37.8	4
28	19.27	18	57.3	1	29.88	16	37.4	2
Sept. 7	19.09	18	57.2	4	29.72	16	37.2	2
17	18.91	16	56.8	7	29.56	15	37.0	0
27	18.75	14	56.1	10	29.41	12	37.0	2
Oct. 7	18.61	10	55.1	14	29.29	8	37.2	4
17	18.51	7	53.7	16	29.21	5	37.6	5
27	18.44	2	52.1	19	29.16	1	38.1	8
Nov. 6	18.42	2	50.2	22	29.15	4	38.9	9
16	18.44	9	48.0	26	29.19	11	39.8	13
26	[20] 18.53	13	45.4	25	[20] 29.30	15	41.1	14
Dec. 6	18.66	18	42.9	26	29.45	19	42.5	15
16	18.84	22	40.3	26	29.64	23	44.0	16
26	19.06	26	37.7	25	29.87	26	45.6	17
36	19.32		35.2		30.13		47.3	
Mittl. Ort	16.99		49.8		27.11		38.3	
	215)				214)			

1901	ε Serpentis. 3ᵐ.3. AR.		Decl. +		ζ Ursae min. 4ᵐ.3. AR.		Decl. +	
	15ʰ 45ᵐ		4° 46′		15ʰ 47ᵐ		78° 5′	
Jan. 0	52.68	27	29.9	20	28.49	75	44.1	28
10	52.95	29	27.9	19	29.24	89	41.3	23
20	53.24	31	26.0	16	30.13	100	39.0	17
30	53.55	31	24.4	14	31.13	108	37.3	12
Febr. 9	53.86	30	23.0	12	32.21	109	36.1	4
19	54.16	29	21.8	8	33.30	109	35.7	3
März 1	54.45	27	21.0	4	34.39	104	36.0	9
11	54.72	26	20.6	1	35.43	95	36.9	15
21	54.98	23	20.5	2	36.38	84	38.4	20
31	55.21	21	20.7	5	37.22	69	40.4	26
April 10	55.42	18	21.2	8	37.91	53	43.0	29
20	55.60	16	22.0	10	38.44	35	45.9	31
30	55.76	13	23.0	12	38.79	17	49.0	32
Mai 10	55.89	10	24.2	12	38.96	1	52.2	33
20	55.99	7	25.4	14	38.95	19	55.5	32
30	56.06	4	26.8	13	38.76	37	58.7	30
Juni 9	56.10	0	28.1	13	38.39	53	61.7	27
19	56.10	2	29.4	12	37.86	67	64.4	24
29	56.08	6	30.6	12	37.19	81	66.8	21
Juli 9	56.02	8	31.8	10	36.38	91	68.9	16
19	55.94	11	32.8	8	35.47	100	70.5	11
29	55.83	14	33.6	7	34.47	105	71.6	6
Aug. 8	55.69	15	34.3	6	33.42	110	72.2	1
18	55.54	16	34.9	3	32.32	112	72.3	5
28	55.38	17	35.2	2	31.20	110	71.8	9
Sept. 7	55.21	16	35.4	1	30.10	106	70.9	15
17	55.05	14	35.3	2	29.04	100	69.4	19
27	54.91	13	35.1	5	28.04	91	67.5	24
Oct. 7	54.78	9	34.6	7	27.13	80	65.1	27
17	54.69	5	33.9	10	26.33	66	62.4	29
27	54.64	2	32.9	12	25.67	49	59.3	34
Nov. 6	54.62	4	31.7	14	25.18	31	55.9	36
16	54.66	10	30.3	18	24.87	12	52.3	41
26	[21] 54.76	14	28.5	18	[21] 24.75	10	48.2	37
Dec. 6	54.90	18	26.7	20	24.85	31	44.5	35
16	55.08	23	24.7	20	25.16	50	41.0	34
26	55.31	25	22.7	20	25.66	68	37.6	30
36	55.56		20.7		26.34		34.6	
Mittl. Ort	52.77		31.6		34.92		57.0	
	216)				217)			

1901	ε Coron. bor. 4^m.0 AR.		Decl. +		δ Scorpii. 2^m.3 AR.		Decl. —		β Scorpii. 2^m.0 AR.		Decl. —		ϑ Draconis. 3^m.6 AR.		Decl. +	
	15^h 53^m		27° 9′		15^h 54^m		22° 20′		15^h 59^m		19° 32′		16^h 0^m		58° 49′	
Jan. 0	28.81		45.3		28.73		20.1		40.73		1.2		0.19		36.0	
10	29.08	27	42.7	26	29.03	30	20.9	8	41.02	29	2.1	9	0.54	35	33.0	30
20	29.38	30	40.3	24	29.35	32	21.9	10	41.34	32	3.1	10	0.95	41	30.4	26
30	29.70	32	38.3	20	29.68	33	22.9	10	41.66	32	4.2	11	1.39	44	28.3	21
Febr. 9	30.02	32	36.8	15	30.01	33	23.9	10	41.99	33	5.3	11	1.86	47	26.8	15
19	30.34	32	35.7	11	30.34	33	25.0	11	42.31	32	6.3	10	2.35	49	26.0	8
März 1	30.65	31	35.2	5	30.66	32	26.0	10	42.63	32	7.3	10	2.82	47	25.9	1
11	30.94	29	35.2	0	30.97	31	27.0	10	42.93	30	8.1	8	3.28	46	26.4	—5
21	31.22	28	35.8	6	31.25	28	27.8	8	43.21	28	8.9	8	3.70	42	27.6	12
31	31.47	25	36.8	10	31.52	27	28.6	8	43.47	26	9.5	6	4.09	39	29.3	17
April 10	31.69	22	38.2	14	31.76	24	29.2	6	43.71	24	10.0	5	4.42	33	31.5	22
20	31.88	19	39.9	17	31.97	21	29.7	5	43.93	22	10.4	4	4.69	27	34.2	27
30	32.04	16	42.0	21	32.16	19	30.2	5	44.12	19	10.7	3	4.90	21	37.1	29
Mai 10	32.17	13	44.3	23	32.32	16	30.5	3	44.28	16	10.9	2	5.05	15	40.3	32
20	32.26	9	46.7	24	32.45	13	30.8	3	44.41	13	11.0	1	5.12	7	43.6	33
30	32.32	6	49.1	24	32.54	9	31.0	2	44.51	10	11.0	0	5.13	1	46.8	32
Juni 9	32.34	2	51.4	23	32.60	6	31.2	2	44.57	6	11.0	0	5.07	—6	50.0	32
19	32.32	—2	53.6	22	32.63	3	31.3	1	44.60	3	10.9	1	4.95	12	52.9	29
29	32.27	5	55.7	21	32.63	0	31.4	1	44.60	0	10.8	1	4.77	18	55.6	27
Juli 9	32.19	8	57.5	18	32.59	4	31.3	—1	44.56	4	10.7	1	4.53	24	57.9	23
19	32.07	12	59.1	16	32.51	8	31.2	1	44.49	7	10.5	2	4.24	29	59.8	19
29	31.93	14	60.3	12	32.40	11	31.0	2	44.38	11	10.3	2	3.91	33	61.3	15
Aug. 8	31.76	17	61.3	10	32.26	14	30.8	2	44.25	13	10.0	3	3.55	36	62.3	10
18	31.57	19	61.9	6	32.11	15	30.5	3	44.10	15	9.7	3	3.16	39	62.8	5
28	31.37	20	62.1	2	31.94	17	30.1	4	43.94	16	9.3	4	2.75	41	62.7	—1
Sept. 7	31.17	20	61.9	—2	31.76	18	29.6	5	43.76	18	8.8	5	2.34	41	62.2	5
17	30.97	20	61.4	5	31.59	17	29.0	6	43.59	17	8.4	4	1.94	40	61.1	11
27	30.79	18	60.5	9	31.43	16	28.5	5	43.44	15	7.9	5	1.56	38	59.6	15
Oct. 7	30.63	16	59.2	13	31.30	13	27.9	6	43.31	13	7.4	5	1.22	34	57.6	20
17	30.50	13	57.6	16	31.20	10	27.4	5	43.20	11	7.0	4	0.93	29	55.2	24
27	30.41	9	55.6	20	31.15	5	26.9	5	43.14	6	6.7	3	0.69	24	52.3	29
Nov. 6	30.36	5	53.3	23	31.14	1	26.5	4	43.13	1	6.5	2	0.52	17	49.1	32
16	30.37	—1	50.8	25	31.18	—4	26.3	2	43.17	—4	6.4	1	0.43	9	45.7	34
26	^{23}30.44	7	47.8	30	^{23}31.29	11	26.3	0	^{24}43.27	10	6.5	—1	^{21}0.42	1	41.8	39
Dec. 6	30.55	11	44.9	29	31.45	16	26.5	2	43.42	15	6.9	4	0.51	—9	38.1	37
16	30.72	17	41.9	30	31.65	20	26.8	3	43.60	18	7.4	5	0.68	17	34.4	37
26	30.94	22	39.0	29	31.90	25	27.4	6	43.84	24	8.1	7	0.93	25	31.0	34
36	31.19	25	36.3	27	32.18	28	28.1	7	44.12	28	8.9	8	1.25	32	27.7	33
Mittl. Ort	29.28		51.6		28.67		25.0		40.70		5.5		2.14		46.6	
	219)				594)				595)				220)			

1901	δ Ophiuchi. $3^m.0$.				ε Ophiuchi. $3^m.3$.				19 Ursae min. $5^m.8$.				τ Herculis. $3^m.3$.			
	AR.		Decl. −		AR.		Decl. −		AR.		Decl. +		AR.		Decl. +	
	$16^h\ 9^m$		$3°\ 26'$		$16^h\ 13^m$		$4°\ 27'$		$16^h\ 13^m$		$76°\ 7'$		$16^h\ 16^m$		$46°\ 32'$	
Jan. 0	$9^s.25$	26	$21''.6$	16	$4^s.79$	26	$4''.3$	15	$32^s.52$	57	$26''.3$	30	$44^s.53$	28	$48''.5$	30
10	9.51	29	23.2	15	5.05	28	5.8	15	33.09	71	23.3	26	44.81	32	45.5	27
20	9.80	30	24.7	15	5.33	30	7.3	14	33.80	82	20.7	21	45.13	35	42.8	23
30	10.10	31	26.2	13	5.63	31	8.7	13	34.62	90	18.6	14	45.48	38	40.5	17
Febr. 9	10.41	30	27.5	11	5.94	30	10.0	10	35.52	95	17.2	8	45.86	38	38.8	11
19	10.71	29	28.6	8	6.24	30	11.0	9	36.47	95	16.4	2	46.24	38	37.7	5
März 1	11.00	29	29.4	6	6.54	29	11.9	6	37.42	93	16.2	−6	46.62	36	37.2	−1
11	11.29	27	30.0	3	6.83	27	12.5	3	38.35	87	16.8	12	46.98	35	37.3	8
21	11.56	25	30.3	1	7.10	25	12.8	1	39.22	79	18.0	17	47.33	32	38.1	14
31	11.81	23	30.4	−2	7.35	23	12.9	−2	40.01	68	19.7	23	47.65	29	39.5	19
April 10	12.04	21	30.2	4	7.58	21	12.7	4	40.69	55	22.0	28	47.94	24	41.4	23
20	12.25	18	29.8	6	7.79	19	12.3	6	41.24	40	24.8	30	48.18	20	43.7	26
30	12.43	15	29.2	8	7.98	16	11.7	7	41.64	26	27.8	32	48.38	16	46.3	29
Mai 10	12.58	12	28.4	9	8.14	13	11.0	8	41.90	10	31.0	33	48.54	11	49.2	31
20	12.70	10	27.5	9	8.27	10	10.2	9	42.00	−6	34.3	33	48.65	6	52.3	31
30	12.80	7	26.6	10	8.37	7	9.3	9	41.94	21	37.6	32	48.71	1	55.4	30
Juni 9	12.87	3	25.6	9	8.44	4	8.4	9	41.73	36	40.8	30	48.72	−4	58.4	29
19	12.90	0	24.7	9	8.48	0	7.5	9	41.37	49	43.8	27	48.68	9	61.3	26
29	12.90	4	23.8	9	8.48	3	6.6	8	40.88	61	46.5	24	48.59	13	63.9	24
Juli 9	12.86	7	22.9	8	8.45	7	5.8	8	40.27	72	48.9	19	48.46	17	66.3	20
19	12.79	9	22.1	7	8.38	9	5.0	7	39.55	81	50.8	15	48.29	22	68.3	17
29	12.70	13	21.4	6	8.29	13	4.3	6	38.74	88	52.3	10	48.07	24	70.0	12
Aug. 8	12.57	14	20.8	5	8.16	14	3.7	5	37.86	93	53.3	5	47.83	27	71.2	8
18	12.43	16	20.3	4	8.02	16	3.2	4	36.93	96	53.8	0	47.56	28	72.0	3
28	12.27	17	19.9	3	7.86	17	2.8	3	35.97	97	53.8	6	47.28	30	72.3	−2
Sept. 7	12.10	16	19.6	2	7.69	16	2.5	2	35.00	95	53.2	10	46.98	29	72.1	6
17	11.94	16	19.4	0	7.53	16	2.3	1	34.05	91	52.2	16	46.69	28	71.5	12
27	11.78	14	19.4	1	7.37	14	2.2	−1	33.14	84	50.6	20	46.41	25	70.3	16
Oct. 7	11.64	10	19.5	4	7.23	11	2.3	3	32.30	76	48.6	24	46.16	22	68.7	20
17	11.54	7	19.9	5	7.12	7	2.6	4	31.54	65	46.2	28	45.94	18	66.7	24
27	11.47	3	20.4	6	7.05	3	3.0	7	30.89	51	43.4	32	45.76	12	64.3	28
Nov. 6	11.44	−2	21.0	9	7.02	−2	3.7	8	30.38	36	40.2	35	45.64	6	61.5	31
16	11.46	7	21.9	12	7.04	7	4.5	10	30.02	19	36.7	36	45.58	0	58.4	33
26	11.53	13	23.1	14	7.11	13	5.5	13	29.83	2	33.1	40	45.58	7	55.1	38
Dec. 6	^{26}11.66	17	24.5	14	^{27}7.24	16	6.8	14	^{27}29.81	−17	29.1	37	^{28}45.65	14	51.3	35
16	11.83	21	25.9	15	7.40	21	8.2	14	29.98	34	25.4	35	45.79	20	47.8	34
26	12.04	25	27.4	16	7.61	24	9.6	16	30.32	54	21.9	32	45.99	25	44.4	32
36	12.29		29.0		7.85		11.2		30.86		18.7		46.24		41.2	
Mittl. Ort	9.35		22.5		4.90		5.6		38.26		36.5		45.74		56.2	
	222)				223)				472)				224)			

1901	γ Herculis. 3m.1. AR.	Diff.	γ Herculis. Decl. +	Diff.	η Draconis. 2m.6. AR.	Diff.	η Draconis. Decl. +	Diff.	α Scorpii. 1m.3. AR.	Diff.	α Scorpii. Decl. −	Diff.	β Herculis. 2m.3. AR.	Diff.	β Herculis. Decl. +	Diff.
	16h 17m		19° 22′		16h 22m		61° 43′		16h 23m		26° 12′		16h 25m		21° 42′	
Jan. 0	32.69	25	64.2	25	36.90	33	68.5	32	20.06	29	40.0	4	57.28	24	15.1	25
10	32.94	28	61.7	22	37.23	41	65.3	27	20.35	31	40.4	6	57.52	27	12.6	24
20	33.22	29	59.5	19	37.64	46	62.6	23	20.66	33	41.0	7	57.79	29	10.2	20
30	33.51	30	57.6	16	38.10	49	60.3	17	20.99	34	41.7	7	58.08	31	8.2	16
Febr. 9	33.81	31	56.0	12	38.59	51	58.6	11	21.33	34	42.4	8	58.39	31	6.6	12
19	34.12	30	54.8	7	39.10	51	57.5	4	21.67	33	43.2	8	58.70	30	5.4	8
März 1	34.42	29	54.1	3	39.61	51	57.1	3	22.00	33	44.0	8	59.00	30	4.6	2
11	34.71	28	53.8	3	40.12	48	57.4	9	22.33	31	44.8	7	59.30	28	4.4	2
21	34.99	26	54.1	7	40.60	44	58.3	16	22.64	29	45.5	7	59.58	26	4.6	7
31	35.25	23	54.8	10	41.04	38	59.9	21	22.93	27	46.2	6	59.84	24	5.3	12
April 10	35.48	21	55.8	15	41.42	33	62.0	25	23.20	25	46.8	6	60.08	22	6.5	15
20	35.69	18	57.3	17	41.75	27	64.5	29	23.45	22	47.4	5	60.30	19	8.0	18
30	35.87	15	59.0	19	42.02	19	67.4	32	23.67	19	47.9	4	60.49	16	9.8	20
Mai 10	36.02	12	60.9	21	42.21	11	70.6	32	23.86	17	48.3	4	60.65	12	11.8	22
20	36.14	9	63.0	22	42.32	5	73.8	34	24.03	13	48.7	4	60.77	10	14.0	23
30	36.23	6	65.2	21	42.37	3	77.2	32	24.16	9	49.1	4	60.87	6	16.3	22
Juni 9	36.29	2	67.3	21	42.34	11	80.4	31	24.25	6	49.5	2	60.93	2	18.5	22
19	36.31	2	69.4	19	42.23	18	83.5	29	24.31	2	49.7	3	60.95	2	20.7	21
29	36.29	6	71.3	17	42.05	24	86.4	25	24.33	3	50.0	2	60.93	5	22.8	19
Juli 9	36.23	8	73.0	16	41.81	30	88.9	22	24.30	6	50.2	1	60.88	8	24.7	16
19	36.15	12	74.6	13	41.51	35	91.1	17	24.24	10	50.3	0	60.80	12	26.3	14
29	36.03	15	75.9	10	41.16	40	92.8	12	24.14	13	50.3	0	60.68	14	27.7	12
Aug. 8	35.88	16	76.9	8	40.76	42	94.0	8	24.01	15	50.3	2	60.54	17	28.9	8
18	35.72	18	77.7	4	40.34	45	94.8	3	23.86	17	50.1	2	60.37	19	29.7	5
28	35.54	19	78.1	1	39.89	46	95.1	3	23.69	19	49.9	4	60.18	20	30.2	1
Sept. 7	35.35	19	78.2	2	39.43	46	94.8	8	23.50	19	49.5	5	59.98	19	30.3	2
17	35.16	18	78.0	5	38.97	44	94.0	12	23.31	17	49.0	5	59.79	19	30.1	5
27	34.98	17	77.5	9	38.53	41	92.8	18	23.14	16	48.5	6	59.60	17	29.6	9
Oct. 7	34.81	13	76.6	12	38.12	36	91.0	22	22.98	13	47.9	7	59.43	15	28.7	13
17	34.68	10	75.4	15	37.76	30	88.8	27	22.85	8	47.2	6	59.28	11	27.4	15
27	34.58	5	73.9	18	37.46	24	86.1	30	22.77	4	46.6	6	59.17	6	25.9	19
Nov. 6	34.53	1	72.1	21	37.22	15	83.1	33	22.73	2	46.0	4	59.11	3	24.0	22
16	34.52	4	70.0	23	37.07	7	79.8	36	22.75	6	45.6	4	59.08	3	21.8	24
26	34.56	10	67.7	27	37.00	4	76.2	40	22.81	14	45.2	1	59.11	10	19.4	28
Dec. 6	[28] 34.66	15	65.0	26	[29] 37.04	12	72.2	37	[30] 22.95	18	45.1	0	[30] 59.21	13	16.6	26
16	34.81	19	62.4	26	37.16	22	68.5	36	23.13	23	45.1	1	59.34	18	14.0	27
26	35.00	23	59.8	26	37.38	30	64.9	32	23.36	27	45.2	4	59.52	23	11.3	27
36	35.23		57.2		37.68		61.7		23.63		45.6		59.75		8.6	
Mittl. Ort	33.10		67.5		39.29		77.1		20.12		45.8		57.76		18.3	
	225)				226)				596)				228)			

1901	*A* Draconis. 5ᵐ.0. AR.	Δ	Decl. +	Δ	σ Herculis. 4ᵐ.1. AR.	Δ	Decl. +	Δ	ζ Ophiuchi. 2ᵐ.6. AR.	Δ	Decl. −	Δ	η Herculis. 3ᵐ.1. AR.	Δ	Decl. +	Δ
	$16^h\ 28^m$		68° 58′		$16^h\ 30^m$		42° 38′		$16^h\ 31^m$		10° 21′		$16^h\ 39^m$		39° 6′	
Jan. 0	6.71	39	48.1	32	53.57	26	21.2	31	42.22	26	57.5	12	29.14	25	32.8	30
10	7.10	49	44.9	28	53.83	30	18.1	27	42.48	28	58.7	12	29.39	28	29.8	27
20	7.59	56	42.1	23	54.13	32	15.4	23	42.76	29	59.9	11	29.67	31	27.1	23
30	8.15	62	39.8	17	54.45	35	13.1	18	43.05	30	61.0	11	29.98	33	24.8	19
Febr. 9	8.77	64	38.1	11	54.80	36	11.3	13	43.35	31	62.1	10	30.31	34	22.9	14
19	9.41	66	37.0	4	55.16	36	10.0	7	43.66	30	63.1	8	30.65	35	21.5	7
März 1	10.07	65	36.6	—3	55.52	35	9.3	0	43.96	30	63.9	6	31.00	34	20.8	2
11	10.72	61	36.9	9	55.87	33	9.3	6	44.26	29	64.5	4	31.34	32	20.6	—5
21	11.33	57	37.8	16	56.20	31	9.9	12	44.55	26	64.9	1	31.66	31	21.1	11
31	11.90	50	39.4	21	56.51	29	11.1	17	44.81	25	65.0	0	31.97	28	22.2	15
April 10	12.40	42	41.5	26	56.80	25	12.8	22	45.06	23	65.0	2	32.25	25	23.7	20
20	12.82	33	44.1	29	57.05	21	15.0	25	45.29	21	64.8	3	32.50	21	25.7	24
30	13.15	24	47.0	32	57.26	17	17.5	27	45.50	18	64.5	5	32.71	18	28.1	27
Mai 10	13.39	14	50.2	33	57.43	13	20.2	30	45.68	15	64.0	5	32.89	14	30.8	28
20	13.53	3	53.5	34	57.56	9	23.2	30	45.83	12	63.5	6	33.03	9	33.6	30
30	13.56	—7	56.9	33	57.65	3	26.2	30	45.95	9	62.9	7	33.12	5	36.6	29
Juni 9	13.49	17	60.2	31	57.68	—1	29.2	29	46.04	6	62.2	6	33.17	1	39.5	28
19	13.32	26	63.3	29	57.67	6	32.1	27	46.10	2	61.6	6	33.18	—4	42.3	27
29	13.06	34	66.2	26	57.61	10	34.8	24	46.12	—2	61.0	6	33.14	8	45.0	24
Juli 9	12.72	43	68.8	22	57.51	14	37.2	21	46.10	5	60.4	6	33.06	12	47.4	22
19	12.29	49	71.0	17	57.37	18	39.3	18	46.05	8	59.8	5	32.94	16	49.6	18
29	11.80	55	72.7	13	57.19	22	41.1	14	45.97	12	59.3	4	32.78	19	51.4	14
Aug. 8	11.25	59	74.0	8	56.97	24	42.5	9	45.85	14	58.9	4	32.59	22	52.8	10
18	10.66	62	74.8	3	56.73	26	43.4	5	45.71	15	58.5	4	32.37	25	53.8	6
28	10.04	63	75.1	—3	56.47	27	43.9	0	45.56	17	58.1	3	32.12	25	54.4	2
Sept. 7	9.41	63	74.8	7	56.20	27	43.9	4	45.39	17	57.8	3	31.87	26	54.6	—3
17	8.78	60	74.1	13	55.93	27	43.5	9	45.22	17	57.5	2	31.61	25	54.3	8
27	8.18	57	72.8	18	55.66	24	42.6	14	45.05	15	57.3	1	31.36	23	53.5	12
Oct. 7	7.61	51	71.0	22	55.42	21	41.2	18	44.90	12	57.2	0	31.13	20	52.3	16
17	7.10	44	68.8	27	55.21	18	39.4	22	44.78	9	57.2	2	30.93	17	50.7	21
27	6.66	35	66.1	30	55.03	12	37.2	26	44.69	4	57.4	3	30.76	12	48.6	24
Nov. 6	6.31	25	63.1	33	54.91	7	34.6	29	44.65	0	57.7	4	30.64	7	46.2	27
16	6.06	14	59.8	36	54.84	1	31.7	31	44.65	6	58.1	6	30.57	1	43.5	31
26	5.92	2	56.2	40	54.83	—6	28.6	37	44.71	11	58.7	9	30.56	—5	40.4	35
Dec. 6	5.90	—12	52.2	37	54.89	12	24.9	34	44.82	15	59.6	9	30.61	11	36.9	33
16	6.02	23	48.5	36	55.01	18	21.5	33	44.97	20	60.5	11	30.72	17	33.6	32
26	6.25	34	44.9	34	55.19	23	18.2	32	45.17	23	61.6	12	30.89	22	30.4	32
36	6.59		41.5		55.42		15.0		45.40		62.8		31.11		27.2	
Mittl. Ort	10.30		56.5		54.66		27.2		42.35		60.4		30.12		37.7	
	229)				230)				597)				232)			

1901	Gr. 2377. 5^m.0. AR.		Decl. +		49 Herculis. 6^m.0. AR.		Decl. +		κ Ophiuchi. 3^m.3. AR.		Decl. +		ε Herculis. 3^m.3. AR.		Decl. +	
	$16^h\ 43^m$		56° 57′		$16^h\ 47^m$		15° 8′		$16^h\ 52^m$		9° 31′		$16^h\ 56^m$		31° 4′	
	s		″		s		″		s		″		s		″	
Jan. 0	23.22	28	24.7	33	33.96	22	23.4	23	58.49	23	44.1	20	29.30	22	16.5	28
10	23.50	34	21.4	29	34.18	26	21.1	21	58.72	24	42.1	20	29.52	25	13.7	26
20	23.84	39	18.5	25	34.44	28	19.0	19	58.96	27	40.1	17	29.77	29	11.1	23
30	24.23	43	16.0	19	34.72	29	17.1	16	59.23	29	38.4	15	30.06	30	8.8	19
Febr. 9	24.66	44	14.1	14	35.01	29	15.5	13	59.52	29	36.9	12	30.36	31	6.9	14
19	25.10	46	12.7	7	35.30	30	14.2	8	59.81	30	35.7	8	30.67	32	5.5	9
März 1	25.56	46	12.0	0	35.60	29	13.4	4	60.11	29	34.9	4	30.99	32	4.6	3
11	26.02	43	12.0	7	35.89	28	13.0	— 1	60.40	28	34.5	0	31.31	31	4.3	— 2
21	26.45	40	12.7	13	36.17	27	13.1	5	60.68	27	34.5	3	31.62	29	4.5	8
31	26.85	37	14.0	19	36.44	25	13.6	9	60.95	25	34.8	7	31.91	27	5.3	13
April 10	27.22	33	15.9	23	36.69	23	14.5	12	61.20	23	35.5	11	32.18	25	6.6	17
20	27.55	27	18.2	27	36.92	21	15.7	16	61.43	21	36.6	13	32.43	22	8.3	21
30	27.82	21	20.9	31	37.13	18	17.3	17	61.64	18	37.9	15	32.65	19	10.4	24
Mai 10	28.03	15	24.0	32	37.31	15	19.0	19	61.82	16	39.4	17	32.84	16	12.8	26
20	28.18	9	27.2	33	37.46	12	20.9	20	61.98	13	41.1	17	33.00	12	15.4	27
30	28.27	2	30.5	33	37.58	8	22.9	21	62.11	9	42.8	18	33.12	7	18.1	27
Juni 9	28.29	— 4	33.8	32	37.66	5	25.0	20	62.20	6	44.6	18	33.19	4	20.8	26
19	28.25	11	37.0	30	37.71	2	27.0	19	62.26	2	46.4	16	33.23	0	23.4	26
29	28.14	17	40.0	27	37.73	— 3	28.9	18	62.28	— 1	48.0	16	33.23	4	26.0	24
Juli 9	27.97	22	42.7	24	37.70	6	30.7	16	62.27	5	49.6	14	33.19	9	28.4	21
19	27.75	28	45.1	20	37.64	9	32.3	13	62.22	8	51.0	12	33.10	12	30.5	18
29	27.47	31	47.1	15	37.55	13	33.6	11	62.14	12	52.2	10	32.98	15	32.3	15
Aug. 8	27.16	35	48.6	10	37.42	15	34.7	9	62.02	14	53.2	8	32.83	19	33.8	11
18	26.81	38	49.6	6	37.27	17	35.6	6	61.88	16	54.0	6	32.64	21	34.9	8
28	26.43	40	50.2	1	37.10	18	36.2	3	61.72	18	54.6	4	32.43	22	35.7	3
Sept. 7	26.03	40	50.3	— 4	36.92	19	36.5	0	61.54	19	55.0	1	32.21	22	36.0	— 1
17	25.63	39	49.9	10	36.73	19	36.5	3	61.35	18	55.1	— 2	31.99	23	35.9	5
27	25.24	36	48.9	14	36.54	17	36.2	6	61.17	16	54.9	5	31.76	21	35.4	8
Oct. 7	24.88	33	47.5	19	36.37	15	35.6	9	61.01	15	54.4	7	31.55	19	34.6	13
17	24.55	28	45.6	24	36.22	11	34.7	12	60.86	11	53.7	9	31.36	16	33.3	17
27	24.27	23	43.2	28	36.11	8	33.5	15	60.75	8	52.8	12	31.20	11	31.6	21
Nov. 6	24.04	15	40.4	31	36.03	3	32.0	17	60.67	3	51.6	15	31.09	7	29.5	23
16	23.89	8	37.3	34	36.00	— 1	30.3	20	60.64	— 2	50.1	17	31.02	1	27.2	26
26	23.81	0	33.9	39	36.01	8	28.3	24	60.66	6	48.4	19	31.01	— 4	24.6	29
Dec. 6	[4] 23.81	9	30.0	36	[5] 36.09	12	25.9	24	60.72	13	46.5	22	31.05	10	21.7	33
16	23.90	17	26.4	36	36.21	16	23.5	23	[6] 60.85	16	44.3	21	[7] 31.15	15	18.4	30
26	24.07	25	22.8	35	36.37	21	21.2	24	61.01	20	42.2	21	31.30	20	15.4	29
36	24.32		19.3		36.58		18.8		61.21		40.1		31.50		12.5	
Mittl. Ort	25.24		30.9		34.39		24.4		58.86		44.0		30.08		19.1	
	477)				478)				233)				234)			

1901	η Ophiuchi. 2ᵐ.3. AR.		Decl. −		ζ Draconis. 3ᵐ.0. AR.		Decl. +		α Hercul. 3.2...4ᵐ.0. AR.		Decl. +		δ Herculis. 3ᵐ.0. AR.		Decl. +	
	17ʰ 4ᵐ		15° 36′		17ʰ 8ᵐ		65° 49′		17ʰ 10ᵐ		14° 30′		17ʰ 10ᵐ		24° 57′	
Jan. 0	41.71ˢ		5.0″		26.76ˢ		67.6″		7.48ˢ		10.5″		57.21ˢ		19.9″	
10	41.95	24	5.8	8	27.03	27	64.2	34	7.68	20	8.3	22	57.41	20	17.2	27
20	42.21	26	6.6	8	27.40	37	61.1	31	7.92	24	6.2	21	57.65	24	14.7	25
30	42.49	28	7.4	8	27.84	44	58.4	27	8.18	26	4.3	19	57.92	27	12.5	22
Febr. 9	42.79	30	8.1	7	28.34	50	56.2	22	8.46	28	2.7	16	58.20	28	10.6	19
19	43.10	31	8.8	7	28.89	55	54.7	15	8.75	29	1.4	13	58.50	30	9.2	14
März 1	43.41	31	9.4	6	29.46	57	53.8	9	9.04	29	0.5	9	58.81	31	8.3	9
11	43.72	31	9.9	5	30.04	58	53.5	3	9.34	30	0.1	4	59.11	30	7.9	4
21	44.01	29	10.2	3	30.61	57	54.0	5	9.62	28	0.1	0	59.41	30	8.0	1
31	44.30	29	10.3	1	31.16	55	55.0	10	9.90	28	0.5	4	59.70	29	8.6	6
April 10	44.57	27	10.3	0	31.66	50	56.7	17	10.16	26	1.4	9	59.97	27	9.6	10
20	44.83	26	10.2	1	32.10	44	59.0	23	10.41	25	2.6	12	60.22	25	11.1	15
30	45.07	24	9.9	3	32.48	38	61.6	26	10.63	22	4.1	15	60.45	23	13.0	19
Mai 10	45.28	21	9.6	3	32.79	31	64.6	30	10.83	20	5.9	18	60.65	20	15.1	21
20	45.47	19	9.3	3	33.01	22	67.9	33	11.00	17	7.8	19	60.82	17	17.5	24
30	45.63	16	8.9	4	33.14	13	71.2	33	11.14	14	9.8	20	60.95	13	20.0	25
Juni 9	45.76	13	8.4	5	33.18	4	74.7	35	11.25	11	11.9	21	61.05	10	22.5	25
19	45.85	9	8.0	4	33.14	4	78.0	33	11.32	7	13.9	20	61.12	7	25.0	25
29	45.90	5	7.6	4	33.00	14	81.2	32	11.35	3	15.9	20	61.14	2	27.4	24
Juli 9	45.91	1	7.3	3	32.78	22	84.2	30	11.35	0	17.7	18	61.12	2	29.6	22
19	45.88	3	6.9	4	32.49	29	86.8	26	11.31	4	19.4	17	61.06	6	31.6	20
29	45.82	6	6.6	3	32.12	37	89.0	22	11.23	8	20.8	14	60.96	10	33.4	18
Aug. 8	45.72	10	6.3	3	31.69	43	90.9	19	11.11	12	22.1	13	60.83	13	34.9	15
18	45.59	13	6.1	2	31.21	48	92.2	13	10.97	14	23.1	10	60.67	16	36.1	12
28	45.44	15	5.9	2	30.69	52	93.1	9	10.80	17	23.8	7	60.48	19	36.9	8
Sept. 7	45.27	17	5.6	3	30.14	55	93.5	4	10.62	18	24.2	4	60.28	20	37.3	4
17	45.09	18	5.4	2	29.58	56	93.4	1	10.43	19	24.3	1	60.07	21	37.4	1
27	44.91	18	5.2	2	29.02	56	92.8	6	10.24	19	24.1	2	59.86	21	37.1	3
Oct. 7	44.74	17	5.0	2	28.49	53	91.6	12	10.06	18	23.7	4	59.66	20	36.5	6
17	44.60	14	4.8	2	27.99	50	89.9	17	9.90	16	22.9	8	59.48	18	35.4	11
27	44.49	11	4.7	1	27.55	44	87.7	22	9.77	13	21.8	11	59.33	15	34.0	14
Nov. 6	44.42	7	4.7	0	27.18	37	85.1	26	9.67	10	20.5	13	59.21	12	32.3	17
16	44.39	3	4.8	1	26.89	29	82.2	29	9.62	5	18.9	16	59.14	7	30.2	21
26	44.42	3	5.1	3	26.69	20	78.9	33	9.62	0	17.0	19	59.12	2	27.9	23
Dec. 6	44.49	7	5.5	4	26.59	10	75.3	36	9.67	5	14.9	21	59.16	4	25.3	26
16	9 44.63	14	6.0	5	10 26.60	1	71.3	40	10 9.77	10	12.5	24	10 59.25	9	22.4	29
26	44.80	17	6.6	6	26.72	12	67.7	36	9.91	14	10.2	23	59.39	14	19.6	28
36	45.01	21	7.4	8	26.95	23	64.2	35	10.10	19	7.9	23	59.57	18	16.9	27
Mittl. Ort	41.92		9.3		29.95		71.7		7.95		10.2		57.87		20.7	
	598)				236)				237)				238)			

1901	π Herculis. 3ᵐ.1. AR.		Decl. +		ϑ Ophiuchi. 3ᵐ.4. AR.		Decl. —		β Draconis. 2ᵐ.6. AR.		Decl. +		α Ophiuchi. 2ᵐ.0. AR.		Decl. +	
	17ʰ 11ᵐ		36° 54′		17ʰ 15ᵐ		24° 53′		17ʰ 28ᵐ		52° 22′		17ʰ 30ᵐ		12° 37′	
	s		″		s		″		s		″		s		″	
Jan. 0	34.91	21	71.6	30	55.45	24	58.8	1	9.97	20	26.6	34	19.80	19	56.4	21
10	35.12	24	68.6	28	55.69	27	58.9	3	10.17	26	23.2	31	19.99	22	54.3	20
20	35.36	28	65.8	25	55.96	29	59.2	4	10.43	31	20.1	28	20.21	25	52.3	19
30	35.64	31	63.3	20	56.25	31	59.6	3	10.74	35	17.3	23	20.46	26	50.4	16
Febr. 9	35.95	32	61.3	15	56.56	32	59.9	4	11.09	38	15.0	18	20.72	28	48.8	12
19	36.27	33	59.8	10	56.88	33	60.3	4	11.47	40	13.2	12	21.00	29	47.6	9
März 1	36.60	34	58.8	4 —	57.21	33	60.7	4	11.87	41	12.0	5 —	21.29	29	46.7	5
11	36.94	32	58.4	2	57.54	32	61.1	3	12.28	41	11.5	1	21.58	29	46.2	1 —
21	37.26	32	58.6	8	57.86	31	61.4	2	12.69	39	11.6	8	21.87	28	46.1	4
31	37.58	29	59.4	13	58.17	30	61.6	2	13.08	38	12.4	14	22.15	27	46.5	8
April 10	37.87	27	60.7	18	58.47	28	61.8	1	13.46	34	13.8	20	22.42	26	47.3	11
20	38.14	25	62.5	22	58.75	26	61.9	1	13.80	31	15.8	24	22.68	24	48.4	14
30	38.39	21	64.7	25	59.01	24	62.0	1	14.11	26	18.2	27	22.92	21	49.8	17
Mai 10	38.60	17	67.2	27	59.25	21	62.1	1	14.37	21	20.9	31	23.13	19	51.5	18
20	38.77	13	69.9	29	59.46	18	62.2	1	14.58	16	24.0	33	23.32	16	53.3	20
30	38.90	9	72.8	30	59.64	15	62.3	1	14.74	10	27.3	33	23.48	13	55.3	20
Juni 9	38.99	5	75.8	29	59.79	10	62.4	1	14.84	4 —	30.6	33	23.61	9	57.3	20
19	39.04	0	78.7	28	59.89	7	62.5	1	14.88	2	33.9	32	23.70	5	59.3	20
29	39.04	4	81.5	26	59.96	3 —	62.6	2	14.86	8	37.1	30	23.75	2 —	61.3	18
Juli 9	39.00	9	84.1	24	59.99	2	62.8	1	14.78	14	40.1	28	23.77	3	63.1	17
19	38.91	13	86.5	20	59.97	6	62.9	1	14.64	19	42.9	24	23.74	6	64.8	15
29	38.78	17	88.5	17	59.91	10	63.0	1	14.45	24	45.3	20	23.68	10	66.3	12
Aug. 8	38.61	20	90.2	13	59.81	13	63.1	1 —	14.21	28	47.3	16	23.58	13	67.5	10
18	38.41	22	91.5	10	59.68	16	63.2	1	13.93	32	48.9	12	23.45	15	68.5	8
28	38.19	25	92.5	5	59.52	18	63.1	1	13.61	34	50.1	8	23.30	18	69.3	5
Sept. 7	37.94	25	93.0	0	59.34	19	63.0	2	13.27	35	50.9	2 —	23.12	19	69.8	3 —
17	37.69	25	93.0	4	59.15	19	62.8	3	12.92	36	51.1	3	22.93	19	70.1	1
27	37.44	24	92.6	8	58.96	18	62.5	3	12.56	35	50.8	9	22.74	18	70.0	3
Oct. 7	37.20	22	91.8	13	58.78	16	62.2	4	12.21	32	49.9	13	22.56	17	69.7	6
17	36.98	18	90.5	17	58.62	13	61.8	4	11.89	29	48.6	18	22.39	14	69.1	10
27	36.80	15	88.8	21	58.49	8	61.4	4	11.60	24	46.8	22	22.25	11	68.1	12
Nov. 6	36.65	10	86.7	25	58.41	3 —	61.0	4	11.36	19	44.6	27	22.14	6	66.9	14
16	36.55	4 —	84.2	27	58.38	1	60.6	3	11.17	12	41.9	30	22.08	2 —	65.5	17
26	36.51	1	81.5	30	58.39	7	60.3	3	11.05	6 —	38.9	33	22.06	2	63.8	20
Dec. 6	36.52	8	78.5	35	58.46	13	60.0	1	10.99	3	35.6	38	22.08	9	61.8	22
16	36.60	13	75.0	32	58.59	17	59.9	0	11.02	9	31.8	35	22.17	12	59.6	22
26	36.73	17	71.8	31	58.76	22	59.9	2	11.11	17	28.3	35	22.29	17	57.4	22
36	36.90		68.7		58.98		60.1		11.28		24.8		22.46		55.2	
Mittl. Ort	35.90		73.7		55.68		64.3		11.74		28.1		20.28		54.9	
	239)				599)				240)				241)			

1901	ξ Serpentis. $3^m.6$. AR.		Decl. −		ι Herculis. $3^m.3$. AR.		Decl. +		ω Draconis. $5^m.0$. AR.		Decl. +		β Ophiuchi. $3^m.0$. AR.		Decl. +	
	$17^h\ 31^m$		15° 20′		$17^h\ 36^m$		46° 3′		$17^h\ 37^m$		68° 47′		$17^h\ 38^m$		4° 36′	
Jan. 0	54.72	21	6.6	6	38.84	18	31.1	32	28.02	22	71.9	35	34.46	18	33.3	18
10	54.93	24	7.2	7	39.02	23	27.9	31	28.24	33	68.4	32	34.64	22	31.5	16
20	55.17	27	7.9	7	39.25	28	24.8	28	28.57	43	65.2	29	34.86	24	29.9	15
30	55.44	28	8.6	6	39.53	31	22.0	23	29.00	51	62.3	24	35.10	26	28.4	13
Febr. 9	55.72	30	9.2	5	39.84	34	19.7	18	29.51	57	59.9	19	35.36	28	27.1	11
19	56.02	30	9.7	5	40.18	36	17.9	12	30.08	62	58.0	13	35.64	28	26.0	8
März 1	56.32	31	10.2	3	40.54	37	16.7	7	30.70	64	56.7	5	35.92	29	25.2	4
11	56.63	30	10.5	1	40.91	37	16.0	1	31.34	64	56.2	1	36.21	29	24.8	1
21	56.93	30	10.6	0	41.28	36	16.1	6	31.98	63	56.3	7	36.50	28	24.7	3
31	57.23	28	10.6	2	41.64	34	16.7	13	32.61	60	57.0	14	36.78	27	25.0	6
April 10	57.51	27	10.4	2	41.98	32	18.0	18	33.21	54	58.4	20	37.05	26	25.6	9
20	57.78	26	10.2	4	42.30	29	19.8	23	33.75	47	60.4	24	37.31	24	26.5	12
30	58.04	23	9.8	5	42.59	25	22.1	26	34.22	39	62.8	28	37.55	22	27.7	13
Mai 10	58.27	21	9.3	5	42.84	21	24.7	29	34.61	31	65.6	32	37.77	20	29.0	16
20	58.48	19	8.8	5	43.05	16	27.6	32	34.92	21	68.8	33	37.97	17	30.6	16
30	58.67	15	8.3	5	43.21	12	30.8	32	35.13	11	72.1	35	38.14	14	32.2	16
Juni 9	58.82	12	7.8	5	43.33	6	34.0	32	35.24	0	75.6	34	38.28	11	33.8	17
19	58.94	7	7.3	5	43.39	1	37.2	31	35.24	9	79.0	34	38.39	7	35.5	15
29	59.01	4	6.8	4	43.40	4	40.3	30	35.15	20	82.4	32	38.46	3	37.0	15
Juli 9	59.05	1	6.4	3	43.36	10	43.3	27	34.95	29	85.6	29	38.49	1	38.5	14
19	59.04	4	6.1	3	43.26	14	46.0	24	34.66	38	88.5	25	38.48	5	39.9	12
29	59.00	8	5.8	3	43.12	19	48.4	21	34.28	46	91.0	22	38.43	8	41.1	10
Aug. 8	58.92	12	5.5	2	42.93	23	50.5	17	33.82	53	93.2	18	38.35	12	42.1	9
18	58.80	15	5.3	2	42.70	27	52.2	12	33.29	58	95.0	14	38.23	15	43.0	6
28	58.65	17	5.1	2	42.43	29	53.4	8	32.71	62	96.4	8	38.08	17	43.6	5
Sept. 7	58.48	17	4.9	2	42.14	30	54.2	4	32.09	64	97.2	3	37.91	18	44.1	3
17	58.31	19	4.7	1	41.84	30	54.6	2	31.45	65	97.5	2	37.73	18	44.4	0
27	58.12	17	4.6	1	41.54	30	54.4	6	30.80	63	97.3	8	37.55	18	44.4	2
Oct. 7	57.95	16	4.5	1	41.24	28	53.8	12	30.17	60	96.5	12	37.37	16	44.2	4
17	57.79	13	4.4	0	40.96	25	52.6	16	29.57	55	95.3	18	37.21	14	43.8	6
27	57.66	9	4.4	0	40.71	21	51.0	21	29.02	49	93.5	23	37.07	10	43.2	9
Nov. 6	57.57	5	4.4	1	40.50	16	48.9	25	28.53	41	91.2	26	36.97	7	42.3	11
16	57.52	0	4.5	3	40.34	10	46.4	28	28.12	31	88.6	31	36.90	2	41.2	12
26	57.52	5	4.8	3	40.24	4	43.6	31	27.81	20	85.5	33	36.88	3	40.0	15
Dec. 6	57.57	10	5.1	5	40.20	2	40.5	33	27.61	8	82.2	35	36.91	7	38.5	16
16	[15] 57.67	15	5.6	5	40.22	9	37.2	37	27.53	4	78.7	40	36.98	13	36.9	19
26	57.82	19	6.1	7	[16] 40.31	15	33.5	34	[18] 27.57	16	74.7	36	[17] 37.11	17	35.0	17
36	58.01		6.8		40.46		30.1		27.73		71.1		37.28		33.3	
Mittl. Ort	55.00		11.0		40.23		31.6		31.84		72.9		34.86		30.6	
	600)				244)				483)				245)			

1901	μ Herculis. $3^m.3$. AR.		Decl. +		ψ Drac. austr. $4^m.6$. AR.		Decl. +		ξ Draconis. $3^m.3$. AR.		Decl. +		ϑ Herculis. $4^m.0$. AR.		Decl. +	
	17h 42m	Δ	27° 46′	Δ	17h 43m	Δ	72° 11′	Δ	17h 51m	Δ	56° 53′	Δ	17h 52m	Δ	37° 15′	Δ
Jan. 0	34.26 s	18	43.0″	28	37.01 s	23	50.7″	35	47.11 s	17	17.6″	35	50.33 s	16	49.9″	31
10	34.44	21	40.2	26	37.24	35	47.2	33	47.28	23	14.1	32	50.49	21	46.8	29
20	34.65	24	37.6	24	37.59	47	43.9	29	47.51	30	10.9	30	50.70	24	43.9	26
30	34.89	26	35.2	20	38.06	57	41.0	25	47.81	35	7.9	26	50.94	28	41.3	23
Febr. 9	35.15	29	33.2	16	38.63	65	38.5	19	48.16	40	5.3	20	51.22	30	39.0	18
19	35.44	30	31.6	11	39.28	71	36.6	14	48.56	43	3.3	14	51.52	31	37.2	13
März 1	35.74	31	30.5	7	39.99	75	35.2	7	48.99	44	1.9	7	51.83	33	35.9	7
11	36.05	30	29.8	1	40.74	75	34.5	—1	49.43	45	1.2	2	52.16	33	35.2	1
21	36.35	30	29.7	—5	41.49	73	34.6	6	49.88	44	1.0	—6	52.49	33	35.1	—4
31	36.65	29	30.2	10	42.22	71	35.2	13	50.32	43	1.6	12	52.82	32	35.5	11
April 10	36.94	28	31.2	14	42.93	64	36.5	19	50.75	40	2.8	18	53.14	30	36.6	16
20	37.22	25	32.6	18	43.57	55	38.4	23	51.15	35	4.6	22	53.44	27	38.2	20
30	37.47	23	34.4	22	44.12	47	40.7	28	51.50	32	6.8	27	53.71	25	40.2	24
Mai 10	37.70	20	36.6	24	44.59	36	43.5	31	51.82	26	9.5	31	53.96	22	42.6	27
20	37.90	17	39.0	26	44.95	25	46.6	33	52.08	20	12.6	32	54.18	18	45.3	29
30	38.07	13	41.6	27	45.20	12	49.9	35	52.28	14	15.8	34	54.36	14	48.2	30
Juni 9	38.20	8	44.3	27	45.32	1	53.4	34	52.42	7	19.2	34	54.50	9	51.2	30
19	38.28	5	47.0	26	45.33	—12	56.8	33	52.49	0	22.6	34	54.59	5	54.2	30
29	38.33	1	49.6	24	45.21	24	60.1	32	52.49	7	26.0	32	54.64	—1	57.2	28
Juli 9	38.34	—4	52.0	23	44.97	35	63.3	30	52.42	13	29.2	30	54.63	5	60.0	27
19	38.30	8	54.3	20	44.62	46	66.3	26	52.29	20	32.2	27	54.58	9	62.7	24
29	38.22	12	56.3	18	44.16	55	68.9	22	52.09	26	34.9	23	54.49	14	65.1	21
Aug. 8	38.10	15	58.1	15	43.61	62	71.1	18	51.83	30	37.2	20	54.35	18	67.2	17
18	37.95	18	59.6	11	42.99	69	72.9	14	51.53	35	39.2	15	54.17	21	68.9	13
28	37.77	21	60.7	7	42.30	74	74.3	9	51.18	38	40.7	10	53.96	23	70.2	9
Sept. 7	37.56	22	61.4	3	41.56	77	75.2	4	50.80	40	41.7	5	53.73	25	71.1	5
17	37.34	23	61.7	0	40.79	78	75.6	—1	50.40	41	42.2	0	53.48	26	71.6	1
27	37.11	22	61.7	5	40.01	76	75.5	7	49.99	40	42.2	5	53.22	25	71.7	—5
Oct. 7	36.89	20	61.2	9	39.25	74	74.8	12	49.59	38	41.7	10	52.97	24	71.2	8
17	36.69	17	60.3	12	38.51	68	73.6	17	49.21	35	40.7	16	52.73	22	70.4	13
27	36.52	14	59.1	16	37.83	60	71.9	22	48.86	31	39.1	20	52.51	18	69.1	18
Nov. 6	36.38	11	57.5	20	37.23	51	69.7	26	48.55	25	37.1	25	52.33	14	67.3	21
16	36.27	6	55.5	23	36.72	40	67.1	30	48.30	19	34.6	28	52.19	9	65.2	25
26	36.21	1	53.2	26	36.32	28	64.1	33	48.11	11	31.8	32	52.10	3	62.7	28
Dec. 6	36.20	—5	50.6	27	36.04	14	60.8	35	48.00	4	28.6	34	52.07	—2	59.9	30
16	36.25	11	47.9	31	35.90	—1	57.3	39	47.96	—5	25.2	39	52.09	8	56.9	35
26	18 36.36	14	44.8	29	18 35.91	14	53.4	36	20 48.01	12	21.3	36	20 52.17	13	53.4	31
36	36.50		41.9		36.05		49.8		48.13		17.7		52.30		50.3	
Mittl. Ort	35.04		42.0		41.75		51.0		49.25		16.9		51.38		48.6	
	246)				484)				248)				249)			

1901	ν Ophiuchi. $3^{m}.6$. AR.		Decl. −		35 Draconis. $5^{m}.0$. AR.		Decl. +		γ Draconis. $2^{m}.3$. AR.		Decl. +		67 Ophiuchi. $4^{m}.0$. AR.		Decl. +	
	17h 53m		9° 45′		17h 53m		76° 58′		17h 54m		51° 29′		17h 55m		2° 56′	
Jan. 0	34.20	18	36.7	8	46.04	22	34.5	34	16.68	15	62.0	34	40.87	17	13.6	16
10	34.38	22	37.5	9	46.26	40	31.1	33	16.83	22	58.6	32	41.04	21	12.0	15
20	34.60	24	38.4	8	46.66	57	27.8	30	17.05	28	55.4	29	41.25	23	10.5	14
30	34.84	27	39.2	8	47.23	71	24.8	25	17.33	32	52.5	25	41.48	25	9.1	13
Febr. 9	35.11	28	40.0	6	47.94	84	22.3	20	17.65	35	50.0	20	41.73	27	7.8	10
19	35.39	29	40.6	4	48.78	92	20.3	15	18.00	38	48.0	14	42.00	28	6.8	7
März 1	35.68	29	41.0	3	49.70	98	18.8	8	18.38	40	46.6	8	42.28	28	6.1	4
11	35.97	30	41.3	0	50.68	100	18.0	1	18.78	40	45.8	1	42.56	29	5.7	1
21	36.27	29	41.3	1	51.68	98	17.9	6	19.18	40	45.7	5	42.85	28	5.6	3
31	36.56	28	41.2	4	52.66	94	18.5	12	19.58	38	46.2	11	43.13	28	5.9	6
April 10	36.84	28	40.8	5	53.60	87	19.7	18	19.96	36	47.3	17	43.41	27	6.5	8
20	37.12	26	40.3	7	54.47	76	21.5	22	20.32	33	49.0	22	43.68	25	7.3	11
30	37.38	25	39.6	8	55.23	63	23.7	27	20.65	29	51.2	26	43.93	24	8.4	14
Mai 10	37.63	22	38.8	9	55.86	49	26.4	30	20.94	24	53.8	30	44.17	21	9.8	15
20	37.85	19	37.9	9	56.35	34	29.4	33	21.18	20	56.8	32	44.38	19	11.3	15
30	38.04	17	37.0	9	56.69	18	32.7	34	21.38	14	60.0	33	44.57	15	12.8	16
Juni 9	38.21	13	36.1	9	56.87	0	36.1	34	21.52	8	63.3	34	44.72	12	14.4	16
19	38.34	9	35.2	8	56.87	16	39.5	34	21.60	2	66.7	33	44.84	9	16.0	16
29	38.43	5	34.4	8	56.71	32	42.9	32	21.62	4	70.0	31	44.93	4	17.6	14
Juli 9	38.48	1	33.6	7	56.39	48	46.1	30	21.58	10	73.1	29	44.97	1	19.0	13
19	38.49	3	32.9	6	55.91	62	49.1	27	21.48	15	76.0	27	44.98	3	20.3	12
29	38.46	7	32.3	5	55.29	75	51.8	24	21.33	21	78.7	23	44.95	8	21.5	11
Aug. 8	38.39	10	31.8	4	54.54	86	54.2	19	21.12	26	81.0	19	44.87	11	22.6	8
18	38.29	14	31.4	3	53.68	94	56.1	15	20.86	29	82.9	15	44.76	13	23.4	6
28	38.15	16	31.1	2	52.74	101	57.6	11	20.57	32	84.4	11	44.63	16	24.0	5
Sept. 7	37.99	17	30.9	1	51.73	106	58.7	5	20.25	35	85.5	5	44.47	18	24.5	3
17	37.82	18	30.8	1	50.67	107	59.2	0	19.90	35	86.0	1	44.29	18	24.8	1
27	37.64	18	30.7	0	49.60	107	59.2	5	19.55	34	86.1	5	44.11	18	24.9	1
Oct. 7	37.46	16	30.7	1	48.53	103	58.7	10	19.21	33	85.6	10	43.93	17	24.8	4
17	37.30	14	30.8	2	47.50	96	57.7	15	18.88	30	84.6	15	43.76	14	24.4	5
27	37.16	11	31.0	3	46.54	88	56.2	20	18.58	26	83.1	19	43.62	11	23.9	7
Nov. 6	37.05	7	31.3	3	45.66	75	54.2	25	18.32	21	81.2	24	43.51	8	23.2	10
16	36.98	2	31.6	5	44.91	61	51.7	28	18.11	16	78.8	28	43.43	3	22.2	12
26	36.96	2	32.1	7	44.30	45	48.9	32	17.95	9	76.0	31	43.40	1	21.0	13
Dec. 6	36.98	7	32.8	7	43.85	28	45.7	34	17.86	2	72.9	33	43.41	6	19.7	14
16	37.05	13	33.5	9	43.57	9	42.3	38	17.84	6	69.6	38	43.47	11	18.3	18
26	[20] 37.18	16	34.4	9	[20] 43.48	13	38.5	36	[20] 17.90	13	65.8	35	[21] 43.58	15	16.5	16
36	37.34		35.3		43.61		34.9		18.03		62.3		43.73		14.9	
Mittl. Ort	34.53		40.8		52.84		33.6		18.40		61.0		41.28		10.3	
	250)				485)				252)				253)			

1901	γ Sagittarii. 3m.3. AR.		Decl. −		72 Ophiuchi. 3m.3. AR.		Decl. +		o Herculis. 3m.8. AR.		Decl. +		μ Sagittarii. 4m.0. AR.		Decl. −	
	17h 59m		30° 25′		18h 2m		9° 32′		18h 3m		28° 44′		18h 7m		21° 4′	
Jan. 0	26.53	20	27.2	4	38.84	16	61.7	19	40.01	15	57.4	28	50.21	18	61.4	1
10	26.73	25	26.8	3	39.00	19	59.8	19	40.16	19	54.6	26	50.39	22	61.5	2
20	26.98	27	26.5	2	39.19	22	57.9	17	40.35	23	52.0	24	50.61	25	61.7	2
30	27.25	30	26.3	2	39.41	25	56.2	14	40.58	25	49.6	22	50.86	27	61.9	1
Febr. 9	27.55	32	26.1	1	39.66	26	54.8	12	40.83	28	47.4	17	51.13	28	62.0	2
19	27.87	33	26.0	1	39.92	28	53.6	9	41.11	29	45.7	12	51.41	30	62.2	1
März 1	28.20	33	25.9	1	40.20	28	52.7	5	41.40	31	44.5	7	51.71	31	62.3	0
11	28.53	34	25.8	0	40.48	29	52.2	1	41.71	30	43.8	2	52.02	32	62.3	1
21	28.87	34	25.8	1	40.77	28	52.1	3	42.01	31	43.6	4	52.34	31	62.2	2
31	29.21	33	25.7	0	41.05	28	52.4	7	42.32	30	44.0	9	52.65	30	62.0	2
April 10	29.54	32	25.7	1	41.33	27	53.1	10	42.62	29	44.9	13	52.95	30	61.8	4
20	29.86	30	25.6	0	41.60	26	54.1	14	42.91	26	46.2	18	53.25	29	61.4	4
30	30.16	28	25.6	1	41.86	24	55.5	15	43.17	25	48.0	22	53.54	27	61.0	4
Mai 10	30.44	26	25.7	1	42.10	21	57.0	18	43.42	22	50.2	24	53.81	25	60.6	4
20	30.70	24	25.8	2	42.31	19	58.8	19	43.64	19	52.6	27	54.06	22	60.2	4
30	30.94	20	26.0	2	42.50	16	60.7	19	43.83	15	55.3	27	54.28	19	59.8	3
Juni 9	31.14	15	26.2	3	42.66	12	62.6	20	43.98	11	58.0	28	54.47	15	59.5	3
19	31.29	12	26.5	4	42.78	9	64.6	19	44.09	7	60.8	27	54.62	12	59.2	2
29	31.41	7	26.9	4	42.87	5	66.5	18	44.16	3	63.5	26	54.74	7	59.0	1
Juli 9	31.48	2	27.3	4	42.92	0	68.3	17	44.19	2	66.1	25	54.81	3	58.9	1
19	31.50	3	27.7	5	42.92	3	70.0	15	44.17	7	68.6	22	54.84	2	58.8	0
29	31.47	7	28.2	4	42.89	8	71.5	13	44.10	10	70.8	20	54.82	6	58.8	0
Aug. 8	31.40	11	28.6	4	42.81	11	72.8	11	44.00	14	72.8	16	54.76	10	58.8	0
18	31.29	15	29.0	3	42.70	14	73.9	8	43.86	18	74.4	13	54.66	13	58.8	1
28	31.14	18	29.3	2	42.56	16	74.7	6	43.68	20	75.7	9	54.53	16	58.9	0
Sept. 7	30.96	20	29.5	1	42.40	18	75.3	4	43.48	22	76.6	6	54.37	18	58.9	0
17	30.76	21	29.6	1	42.22	19	75.7	1	43.26	23	77.2	1	54.19	19	58.9	0
27	30.55	20	29.5	1	42.03	19	75.8	1	43.03	22	77.3	3	54.00	19	58.9	1
Oct. 7	30.35	18	29.4	3	41.84	17	75.7	4	42.81	21	77.0	6	53.81	17	58.8	1
17	30.17	16	29.1	5	41.67	15	75.3	7	42.60	19	76.4	11	53.64	15	58.7	1
27	30.01	13	28.6	5	41.52	13	74.6	10	42.41	16	75.3	15	53.49	12	58.6	1
Nov. 6	29.88	8	28.1	5	41.39	8	73.6	12	42.25	12	73.8	19	53.37	8	58.5	2
16	29.80	3	27.6	6	41.31	5	72.4	14	42.13	8	71.9	21	53.29	4	58.3	1
26	29.77	2	27.0	6	41.26	0	71.0	17	42.05	3	69.8	24	53.25	2	58.2	0
Dec. 6	29.79	8	26.4	6	41.26	5	69.3	18	42.02	2	67.4	27	53.27	6	58.2	0
16	29.87	14	25.8	5	41.31	10	67.5	20	42.04	8	64.7	31	53.33	12	58.2	1
26	[21] 30.01	18	25.3	4	[22] 41.41	13	65.5	20	[22] 42.12	13	61.6	28	[23] 53.45	16	58.3	1
36	30.19		24.9		41.54		63.5		42.25		58.8		53.61		58.4	
Mittl. Ort	26.89		32.8		39.32		58.5		40.82		55.0		50.54		66.3	
	601)				254)				255)				602)			

1901	η Serpentis. 3ᵐ.0. AR.		Decl. —		109 Herculis. 4ᵐ.0. AR.		Decl. +		b Draconis. 5ᵐ.1. AR.		Decl. +		χ Draconis. 3ᵐ.8. AR.		Decl. +	
	$18^h\ 16^m$		2° 55′		$18^h\ 19^m$		21° 43′		$18^h\ 22^m$		58° 44′		$18^h\ 22^m$		72° 41′	
Jan. 0	10.76	15	24.2	13	28.07	14	31.4	25	25.57	11	39.0	36	45.61	11	27.7	35
10	10.91	19	25.5	12	28.21	18	28.9	24	25.68	19	35.4	33	45.72	24	24.2	34
20	11.10	22	26.7	11	28.39	20	26.5	22	25.87	26	32.1	31	45.96	38	20.8	32
30	11.32	24	27.8	9	28.59	24	24.3	19	26.13	32	29.0	28	46.34	50	17.6	28
Febr. 9	11.56	26	28.7	8	28.83	26	22.4	16	26.45	38	26.2	23	46.84	59	14.8	23
19	11.82	28	29.5	6	29.09	28	20.8	12	26.83	42	23.9	18	47.43	68	12.5	18
März 1	12.10	28	30.1	3	29.37	28	19.6	7	27.25	45	22.1	11	48.11	73	10.7	12
11	12.38	28	30.4	0	29.65	30	18.9	2	27.70	46	21.0	4	48.84	77	9.5	5
21	12.66	29	30.4	2	29.95	29	18.7	— 2	28.16	46	20.6	— 2	49.61	77	9.0	— 1
31	12.95	28	30.2	5	30.24	30	18.9	8	28.62	46	20.8	8	50.38	76	9.1	8
April 10	13.23	28	29.7	8	30.54	28	19.7	12	29.08	44	21.6	15	51.14	71	9.9	14
20	13.51	27	28.9	10	30.82	27	20.9	16	29.52	41	23.1	20	51.85	65	11.3	20
30	13.78	25	27.9	11	31.09	25	22.5	19	29.93	37	25.1	25	52.50	58	13.3	25
Mai 10	14.03	23	26.8	13	31.34	23	24.4	22	30.30	31	27.6	29	53.08	48	15.8	28
20	14.26	20	25.5	13	31.57	21	26.6	24	30.61	25	30.5	32	53.56	36	18.6	32
30	14.46	18	24.2	13	31.78	16	29.0	25	30.86	19	33.7	34	53.92	25	21.8	34
Juni 9	14.64	14	22.9	13	31.94	13	31.5	25	31.05	12	37.1	34	54.17	13	25.2	34
19	14.78	11	21.6	13	32.07	10	34.0	25	31.17	5	40.5	35	54.30	0	28.6	35
29	14.89	7	20.3	12	32.17	5	36.5	24	31.22	— 3	44.0	34	54.30	13	32.1	34
Juli 9	14.96	2	19.1	11	32.22	0	38.9	22	31.19	9	47.4	32	54.17	25	35.5	32
19	14.98	— 1	18.0	9	32.22	3	41.1	21	31.10	17	50.6	30	53.92	37	38.7	30
29	14.97	6	17.1	8	32.19	8	43.2	18	30.93	24	53.6	26	53.55	47	41.7	27
Aug. 8	14.91	9	16.3	6	32.11	12	45.0	16	30.69	29	56.2	23	53.08	57	44.4	24
18	14.82	13	15.7	5	31.99	15	46.6	12	30.40	34	58.5	19	52.51	65	46.8	19
28	14.69	15	15.2	4	31.84	17	47.8	9	30.06	38	60.4	15	51.86	72	48.7	15
Sept. 7	14.54	17	14.8	2	31.67	20	48.7	6	29.68	42	61.9	9	51.14	76	50.2	9
17	14.37	18	14.6	1	31.47	21	49.3	3	29.26	43	62.8	5	50.38	79	51.1	5
27	14.19	18	14.5	— 1	31.26	20	49.6	— 1	28.83	43	63.3	— 1	49.59	80	51.6	0
Oct. 7	14.01	17	14.6	2	31.06	20	49.5	5	28.40	42	63.2	7	48.79	78	51.6	6
17	13.84	15	14.8	4	30.86	18	49.0	9	27.98	40	62.5	11	48.01	75	51.0	12
27	13.69	13	15.2	5	30.68	15	48.1	12	27.58	36	61.4	16	47.26	69	49.8	16
Nov. 6	13.56	9	15.7	7	30.53	12	46.9	15	27.22	31	59.8	22	46.57	60	48.2	22
16	13.47	4	16.4	8	30.41	7	45.4	19	26.91	24	57.6	26	45.97	51	46.0	26
26	13.43	1	17.2	10	30.34	3	43.5	21	26.67	18	55.0	29	45.46	39	43.4	29
Dec. 6	13.42	— 4	18.2	10	30.31	— 1	41.4	23	26.49	10	52.1	32	45.07	27	40.5	32
16	13.46	10	19.2	13	30.32	7	39.1	25	26.39	2	48.9	35	44.80	13	37.3	35
26	[25] 13.56	14	20.5	13	30.39	12	36.6	27	26.37	— 7	45.4	39	44.67	— 3	33.8	40
36	13.70		21.8		[26] 30.51		33.9		[27] 26.44		41.5		[27] 44.70		29.8	
Mittl. Ort	11.14		28.4		28.73		27.7		27.85		35.2		50.44		23.7	
	257)				258)				488)				259)			

1901	α Lyrae. 1^m.*)				110 Herculis. 4^m.0.				β Lyrae. 3.4...4^m.5.				σ Sagittarii. 2^m.3.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. −	
	18^h 33^m		38° 41′		18^h 41^m		20° 26′		18^h 46^m		33° 14′		18^h 49^m		26° 25′	
Jan. 0	34.12^s	11	33.6″	31	23.39^s	11	69.2″	24	[1] 24.57^s	11	57.4″	31	[1] 7.18^s	16	7.5″	4
10	34.23	16	30.5	29	23.50	16	66.8	23	24.68	14	54.3	28	7.34	19	7.1	3
20	34.39	21	27.6	28	23.66	19	64.5	22	24.82	19	51.5	27	7.53	22	6.8	4
30	34.60	24	24.8	25	23.85	22	62.3	19	25.01	22	48.8	23	7.75	25	6.4	3
Febr. 9	34.84	27	22.3	20	24.07	24	60.4	16	25.23	25	46.5	20	8.00	27	6.1	4
19	35.11	30	20.3	16	24.31	26	58.8	12	25.48	28	44.5	16	8.27	29	5.7	3
März 1	35.41	32	18.7	10	24.57	28	57.6	8	25.76	30	42.9	10	8.56	30	5.4	4
11	35.73	34	17.7	4	24.85	28	56.8	3	26.06	31	41.9	5	8.86	32	5.0	5
21	36.07	33	17.3	2	25.13	29	56.5	2	26.37	31	41.4	1	9.18	32	4.5	5
31	36.40	33	17.5	8	25.42	30	56.7	6	26.68	32	41.5	6	9.50	32	4.0	5
April 10	36.73	33	18.3	13	25.72	29	57.3	11	27.00	31	42.1	12	9.82	32	3.5	6
20	37.06	30	19.6	18	26.01	28	58.4	15	27.31	30	43.3	17	10.14	32	2.9	5
30	37.36	29	21.4	23	26.29	26	59.9	19	27.61	29	45.0	21	10.46	30	2.4	5
Mai 10	37.65	26	23.7	26	26.55	25	61.8	21	27.90	26	47.1	24	10.76	29	1.9	4
20	37.91	22	26.3	29	26.80	22	63.9	23	28.16	23	49.5	27	11.05	26	1.5	3
30	38.13	18	29.2	30	27.02	19	66.2	25	28.39	19	52.2	29	11.31	24	1.2	3
Juni 9	38.31	14	32.2	32	27.21	15	68.7	25	28.58	16	55.1	30	11.55	20	0.9	1
19	38.45	9	35.4	31	27.36	11	71.2	25	28.74	11	58.1	30	11.75	16	0.8	1
29	38.54	4	38.5	31	27.47	7	73.7	24	28.85	6	61.1	29	11.91	11	0.7	1
Juli 9	38.58	1	41.6	29	27.54	3	76.1	23	28.91	2	64.0	28	12.02	7	0.8	2
19	38.57	6	44.5	27	27.57	1	78.4	21	28.93	3	66.8	26	12.09	2	1.0	3
29	38.51	11	47.2	24	27.56	6	80.5	19	28.90	8	69.4	24	12.11	3	1.3	3
Aug. 8	38.40	15	49.6	21	27.50	10	82.4	16	28.82	12	71.8	20	12.08	7	1.6	4
18	38.25	19	51.7	17	27.40	14	84.0	14	28.70	16	73.8	18	12.01	11	2.0	3
28	38.06	22	53.4	14	27.26	16	85.4	10	28.54	20	75.6	14	11.90	14	2.3	4
Sept. 7	37.84	25	54.8	9	27.10	19	86.4	7	28.34	22	77.0	9	11.76	18	2.7	2
17	37.59	26	55.7	4	26.91	20	87.1	4	28.12	23	77.9	6	11.58	19	2.9	2
27	37.33	26	56.1	0	26.71	20	87.5	0	27.89	24	78.5	1	11.39	20	3.1	1
Oct. 7	37.07	26	56.1	4	26.51	20	87.5	3	27.65	24	78.6	3	11.19	19	3.2	1
17	36.81	24	55.7	10	26.31	18	87.2	7	27.41	22	78.3	8	11.00	17	3.3	1
27	36.57	21	54.7	14	26.13	16	86.5	10	27.19	19	77.5	12	10.83	15	3.2	2
Nov. 6	36.36	17	53.3	18	25.97	13	85.5	14	27.00	17	76.3	16	10.68	11	3.0	2
16	36.19	13	51.5	22	25.84	9	84.1	17	26.83	12	74.7	20	10.57	8	2.8	3
26	36.06	8	49.3	26	25.75	5	82.4	19	26.71	8	72.7	22	10.49	2	2.5	4
Dec. 6	35.98	3	46.7	28	25.70	0	80.5	22	26.63	3	70.5	26	10.47	2	2.1	3
16	35.95	3	43.9	30	25.70	4	78.3	23	26.60	2	67.9	28	10.49	7	1.8	4
26	35.98	8	40.9	34	25.74	10	76.0	26	26.62	7	65.1	32	10.56	13	1.4	4
36	[29] 36.06		37.5		[31] 25.84		73.4		[32] 26.69		61.9		[33] 10.69		1.0	
Mittl. Ort	35.19		29.2		24.02		64.3		25.47		51.7		7.59		12.0	
	260)				263)				264)				603)			

*) Die jährliche Parallaxe ist bereits angebracht.

1901	o Draconis. 4$4^m.6$.				ϑ Serpentis pr. $4^m.2$.				*R* Lyrae. 4.3...$4^m.6$.				γ Lyrae. $3^m.3$.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$18^h\ 49^m$		59° 15′		$18^h\ 51^m$		4° 4′		$18^h\ 52^m$		43° 48′		$18^h\ 55^m$		32° 33′	
Jan. 0	42.16	7	68.9	38	17.39	13	34.4	17	18.10	9	61.9	35	13.50	10	19.3	31
10	^{2}42.23	14	65.1	34	^{2}17.52	15	32.7	15	^{2}18.19	13	58.4	32	^{3}13.60	13	16.2	28
20	42.37	21	61.7	33	17.67	18	31.2	13	18.32	18	55.2	29	13.73	18	13.4	26
30	42.58	29	58.4	29	17.85	21	29.9	12	18.50	23	52.3	27	13.91	21	10.8	24
Febr. 9	42.87	34	55.5	25	18.06	24	28.7	10	18.73	27	49.6	23	14.12	24	8.4	20
19	43.21	40	53.0	20	18.30	25	27.7	7	19.00	31	47.3	18	14.36	27	6.4	15
März 1	43.61	43	51.0	14	18.55	27	27.0	4	19.31	32	45.5	12	14.63	29	4.9	11
11	44.04	46	49.6	8	18.82	27	26.6	0	19.63	34	44.3	7	14.92	31	3.8	5
21	44.50	47	48.8	1	19.09	29	26.6	3	19.97	36	43.6	0	15.23	31	3.3	0
31	44.97	48	48.7	5	19.38	29	26.9	6	20.33	36	43.6	6	15.54	32	3.3	6
April 10	45.45	46	49.2	12	19.67	28	27.5	10	20.69	35	44.2	11	15.86	31	3.9	11
20	45.91	43	50.4	18	19.95	28	28.5	12	21.04	33	45.3	17	16.17	31	5.0	16
30	46.34	40	52.2	22	20.23	26	29.7	14	21.37	32	47.0	22	16.48	28	6.6	20
Mai 10	46.74	36	54.4	27	20.49	25	31.1	16	21.69	29	49.2	26	16.76	27	8.6	24
20	47.10	30	57.1	31	20.74	23	32.7	18	21.98	25	51.8	29	17.03	24	11.0	27
30	47.40	24	60.2	33	20.97	21	34.5	18	22.23	21	54.7	31	17.27	20	13.7	28
Juni 9	47.64	17	63.5	34	21.18	17	36.3	18	22.44	16	57.8	33	17.47	17	16.5	30
19	47.81	10	66.9	36	21.35	13	38.1	17	22.60	11	61.1	33	17.64	12	19.5	30
29	47.91	2	70.5	34	21.48	10	39.8	17	22.71	6	64.4	32	17.76	7	22.5	29
Juli 9	47.93	5	73.9	34	21.58	5	41.5	15	22.77	0	67.6	31	17.83	3	25.4	28
19	47.88	13	77.3	32	21.63	1	43.0	14	22.77	5	70.7	30	17.86	2	28.2	27
29	47.75	20	80.5	29	21.64	4	44.4	12	22.72	11	73.7	27	17.84	7	30.9	24
Aug. 8	47.55	26	83.4	26	21.60	7	45.6	11	22.61	15	76.4	24	17.77	11	33.3	21
18	47.29	32	86.0	22	21.53	11	46.7	8	22.46	20	78.8	20	17.66	15	35.4	18
28	46.97	36	88.2	18	21.42	14	47.5	6	22.26	23	80.8	16	17.51	19	37.2	14
Sept. 7	46.61	40	90.0	14	21.28	16	48.1	5	22.03	26	82.4	12	17.32	22	38.6	10
17	46.21	43	91.4	8	21.12	18	48.6	2	21.77	28	83.6	7	17.10	23	39.6	7
27	45.78	44	92.2	3	20.94	18	48.8	0	21.49	29	84.3	3	16.87	23	40.3	2
Oct. 7	45.34	43	92.5	2	20.76	17	48.8	2	21.20	29	84.6	2	16.64	23	40.5	3
17	44.91	42	92.3	8	20.59	17	48.6	4	20.91	27	84.4	8	16.41	22	40.2	6
27	44.49	38	91.5	13	20.42	14	48.2	7	20.64	25	83.6	12	16.19	20	39.6	11
Nov. 6	44.11	34	90.2	18	20.28	11	47.5	8	20.39	21	82.4	17	15.99	17	38.5	15
16	43.77	29	88.4	23	20.17	7	46.7	10	20.18	17	80.7	21	15.82	13	37.0	19
26	43.48	22	86.1	27	20.10	4	45.7	12	20.01	12	78.6	25	15.69	8	35.1	23
Dec. 6	43.26	15	83.4	30	20.06	1	44.5	14	19.89	7	76.1	28	15.61	4	32.8	25
16	43.11	7	80.4	33	20.07	5	43.1	14	19.82	1	73.3	31	15.57	1	30.3	27
26	43.04	2	77.1	38	20.12	10	41.7	17	19.81	5	70.2	35	15.58	7	27.6	31
36	^{33}43.06		73.3		^{33}20.22		40.0		^{33}19.86		66.7		^{34}15.65		24.5	
Mittl. Ort	44.42		62.1		17.83		29.2		19.34		55.4		14.37		13.0	
	265)				266)				492)				268)			

1901	ζ Aquilae. $3^m.0$				λ Aquilae. $3^m.1$				π Sagittarii. $3^m.1$				δ Draconis. $3^m.0$			
	AR.		Decl. +		AR.		Decl. —		AR.		Decl. —		AR.		Decl. +	
	$19^h\ 0^m$		13° 42′		$19^h\ 0^m$		5° 1′		$19^h\ 3^m$		21° 10′		$19^h\ 12^m$		67° 29′	
Jan. 0	51.01	11	63.7	22	59.27	12	47.3	11	52.19	14	48.4	1	28.73	3	23.7	38
10	51.12	14	61.5	20	59.39	15	48.4	9	52.33	16	48.3	0	28.70	10	19.9	34
20	51.26	17	59.5	18	59.54	18	49.3	9	52.49	20	48.3	1	28.80	20	16.5	34
30	51.43	20	57.7	16	59.72	21	50.2	7	52.69	22	48.2	2	29.00	30	13.1	31
Febr. 9	51.63	22	56.1	14	59.93	23	50.9	5	52.91	25	48.0	2	29.30	38	10.0	27
19	51.85	25	54.7	11	60.16	26	51.4	4	53.16	27	47.8	3	29.68	47	7.3	22
März 1	52.10	26	53.6	6	60.42	26	51.8	1	53.43	29	47.5	4	30.15	53	5.1	17
11	52.36	28	53.0	2	60.68	28	51.9	2	53.72	30	47.1	4	30.68	57	3.4	11
21	52.64	29	52.8	2	60.96	28	51.7	4	54.02	30	46.7	6	31.25	60	2.3	5
31	52.93	29	53.0	6	61.24	29	51.3	6	54.32	31	46.1	6	31.85	62	1.8	2
April 10	53.22	28	53.6	10	61.53	29	50.7	8	54.63	31	45.5	7	32.47	60	2.0	9
20	53.50	28	54.6	13	61.82	29	49.9	11	54.94	31	44.8	8	33.07	58	2.9	14
30	53.78	27	55.9	17	62.11	28	48.8	12	55.25	30	44.0	7	33.65	54	4.3	21
Mai 10	54.05	26	57.6	19	62.39	26	47.6	13	55.55	28	43.3	8	34.19	48	6.4	25
20	54.31	23	59.5	21	62.65	24	46.3	14	55.83	27	42.5	7	34.67	41	8.9	29
30	54.54	21	61.6	22	62.89	22	44.9	14	56.10	24	41.8	5	35.08	33	11.8	32
Juni 9	54.75	17	63.8	23	63.11	18	43.5	13	56.34	20	41.3	5	35.41	24	15.0	34
19	54.92	14	66.1	22	63.29	14	42.2	13	56.54	17	40.8	4	35.65	15	18.4	35
29	55.06	10	68.3	22	63.43	12	40.9	12	56.71	13	40.4	3	35.80	4	21.9	36
Juli 9	55.16	5	70.5	21	63.55	7	39.7	11	56.84	8	40.1	2	35.84	5	25.5	35
19	55.21	1	72.6	19	63.62	2	38.6	9	56.92	3	39.9	0	35.79	15	29.0	34
29	55.22	3	74.5	17	63.64	2	37.7	8	56.95	1	39.9	1	35.64	25	32.4	32
Aug. 8	55.19	8	76.2	14	63.62	6	36.9	7	56.94	6	40.0	1	35.39	33	35.6	29
18	55.11	11	77.6	12	63.56	10	36.2	5	56.88	10	40.1	2	35.06	41	38.5	25
28	55.00	14	78.8	10	63.46	13	35.7	3	56.78	13	40.3	2	34.65	48	41.0	22
Sept. 7	54.86	17	79.8	7	63.33	15	35.4	2	56.65	16	40.5	2	34.17	53	43.2	17
17	54.69	18	80.5	4	63.18	17	35.2	1	56.49	18	40.7	2	33.64	57	44.9	12
27	54.51	19	80.9	1	63.01	18	35.1	0	56.31	19	40.9	2	33.07	59	46.1	7
Oct. 7	54.32	19	81.0	2	62.83	18	35.1	2	56.12	18	41.1	1	32.48	60	46.8	1
17	54.13	18	80.8	5	62.65	16	35.3	3	55.94	17	41.2	0	31.88	59	46.9	4
27	53.95	15	80.3	8	62.49	14	35.6	4	55.77	15	41.2	0	31.29	55	46.5	9
Nov. 6	53.80	13	79.5	11	62.35	11	36.0	5	55.62	12	41.2	0	30.74	52	45.6	15
16	53.67	10	78.4	13	62.24	8	36.5	7	55.50	8	41.2	0	30.22	45	44.1	20
26	53.57	5	77.1	16	62.16	4	37.2	7	55.42	3	41.2	1	29.77	38	42.1	24
Dec. 6	53.52	1	75.5	17	62.12	0	37.9	9	55.39	0	41.1	0	29.39	28	39.7	29
16	53.51	3	73.8	19	62.12	5	38.8	9	55.39	5	41.1	1	29.11	18	36.8	32
26	53.54	8	71.9	22	62.17	10	39.7	10	55.44	11	41.0	0	28.93	9	33.6	33
36	53.62		69.7		62.27		40.7		55.55		41.0		28.84		30.3	
Mittl. Ort	51.54		57.9		59.65		52.4		52.58		52.9		31.97		14.4	
	270)				269)				604)				271)			

1901	ϑ Lyrae. $4^m.3$.				ω Aquilae. $5^m.6$.				κ Cygni. $4^m.0$.				τ Draconis. $4^m.8$.			
	AR.	Diff.	Decl. +	Diff.	AR.	Diff.	Decl. +	Diff.	AR.	Diff.	Decl. +	Diff.	AR.	Diff.	Decl. +	Diff.
	$19^h\ 12^m$		$37°\ 57'$		$19^h\ 13^m$		$11°\ 24'$		$19^h\ 14^m$		$53°\ 10'$		$19^h\ 17^m$		$73°\ 10'$	
Jan. 0	54.82 s	7	33.4 "	33	9.67 s	10	66.3 "	20	47.25 s	4	76.9 "	36	23.01 s	9	28.6 "	38
10	[7] 54.89	11	30.1	30	[7] 9.77	12	64.3	18	[7] 47.29	10	73.3	33	[8] 22.92	— 8	24.8	34
20	55.00	16	27.1	28	9.89	16	62.5	17	47.39	16	70.0	32	23.00	21	21.4	33
30	55.16	19	24.3	25	10.05	19	60.8	15	47.55	22	66.8	30	23.21	35	18.1	31
Febr. 9	55.35	24	21.8	23	10.24	22	59.3	13	47.77	28	63.8	26	23.56	47	15.0	28
19	55.59	27	19.5	18	10.46	24	58.0	10	48.05	32	61.2	21	24.03	58	12.2	24
März 1	55.86	29	17.7	13	10.70	26	57.0	6	48.37	36	59.1	16	24.61	66	9.8	17
11	56.15	31	16.4	7	10.96	27	56.4	2	48.73	39	57.5	10	25.27	74	8.1	12
21	56.46	33	15.7	2	11.23	28	56.2	— 2	49.12	41	56.5	3	26.01	77	6.9	6
31	56.79	33	15.5	— 5	11.51	29	56.4	6	49.53	41	56.2	— 3	26.78	79	6.3	— 1
April 10	57.12	34	16.0	10	11.80	29	57.0	10	49.94	41	56.5	9	27.57	78	6.4	8
20	57.46	32	17.0	15	12.09	29	58.0	13	50.35	41	57.4	15	28.35	75	7.2	13
30	57.78	31	18.5	20	12.38	28	59.3	16	50.76	38	58.9	21	29.10	69	8.5	19
Mai 10	58.09	29	20.5	24	12.66	26	60.9	19	51.14	34	61.0	25	29.79	61	10.4	24
20	58.38	26	22.9	27	12.92	23	62.8	20	51.48	31	63.5	29	30.40	52	12.8	29
30	58.64	23	25.6	29	13.15	21	64.8	21	51.79	25	66.4	31	30.92	41	15.7	31
Juni 9	58.87	18	28.5	31	13.36	19	66.9	22	52.04	20	69.5	34	31.33	30	18.8	34
19	59.05	14	31.6	32	13.55	15	69.1	22	52.24	14	72.9	35	31.63	17	22.2	35
29	59.19	9	34.8	31	13.70	11	71.3	21	52.38	8	76.4	35	31.80	4	25.7	36
Juli 9	59.28	4	37.9	31	13.81	6	73.4	20	52.46	1	79.9	34	31.84	— 10	29.3	35
19	59.32	— 1	41.0	29	13.87	3	75.4	18	52.47	— 5	83.3	32	31.74	21	32.8	34
29	59.31	6	43.9	27	13.90	— 2	77.2	16	52.42	12	86.5	31	31.53	34	36.2	32
Aug. 8	59.25	12	46.6	24	13.88	6	78.8	15	52.30	18	89.6	27	31.19	46	39.4	30
18	59.13	15	49.0	20	13.82	10	80.3	12	52.12	23	92.3	24	30.73	55	42.4	26
28	58.98	19	51.0	17	13.72	14	81.5	9	51.89	27	94.7	20	30.18	65	45.0	22
Sept. 7	58.79	23	52.7	13	13.58	16	82.4	7	51.62	32	96.7	16	29.53	71	47.2	18
17	58.56	24	54.0	9	13.42	17	83.1	4	51.30	34	98.3	11	28.82	77	49.0	13
27	58.32	25	54.9	4	13.25	19	83.5	1	50.96	35	99.4	6	28.05	80	50.3	8
Oct. 7	58.07	26	55.3	0	13.06	18	83.6	— 1	50.61	36	100.0	1	27.25	81	51.1	3
17	57.81	24	55.3	5	12.88	18	83.5	4	50.25	35	100.1	— 4	26.44	80	51.4	— 2
27	57.57	23	54.8	10	12.70	15	83.1	7	49.90	33	99.7	10	25.64	77	51.2	8
Nov. 6	57.34	19	53.8	14	12.55	13	82.4	10	49.57	29	98.7	15	24.87	71	50.4	14
16	57.15	16	52.4	18	12.42	10	81.4	12	49.28	25	97.2	19	24.16	64	49.0	19
26	56.99	12	50.6	22	12.32	6	80.2	14	49.03	19	95.3	24	23.52	54	47.1	24
Dec. 6	56.87	7	48.4	26	12.26	2	78.8	16	48.84	14	92.9	28	22.98	43	44.7	28
16	56.80	2	45.8	28	12.24	— 2	77.2	18	48.70	8	90.1	31	22.55	31	41.9	31
26	56.78	— 2	43.0	29	12.26	6	75.4	18	48.62	1	87.0	33	22.24	16	38.8	33
36	56.80		40.1		12.32		73.6		48.61		83.7		22.08		35.5	
Mittl. Ort	55.80		25.6		10.15		60.1		48.92		68.1		27.59		18.5	
	496)				495)				272)				273)			

1901	δ Aquilae. 3ᵐ.3. AR.		Decl. +		β Cygni. 3ᵐ.0. AR.		Decl. +		ι Cygni. 4ᵐ.1. AR.		Decl. +		*h* Sagittarii. 4ᵐ.6. AR.		Decl. —	
	19ʰ 20ᵐ		2° 55′		19ʰ 26ᵐ		27° 44′		19ʰ 27ᵐ		51° 30′		19ʰ 30ᵐ		25° 5′	
Jan. 0	29.97	10	7.5	15	43.00	6	72.9	26	11.13	2	76.9	33	40.53	10	64.4	3
10	(9) 30.07	13	6.0	13	43.06	11	70.3	28	11.15	8	73.6	36	40.63	15	64.1	5
20	30.20	16	4.7	12	(10) 43.17	14	67.5	24	(10) 11.23	14	70.0	31	(11) 40.78	17	63.6	5
30	30.36	18	3.5	11	43.31	18	65.1	23	11.37	21	66.9	30	40.95	21	63.1	5
Febr. 9	30.54	22	2.4	9	43.49	21	62.8	19	11.58	25	63.9	26	41.16	23	62.6	5
19	30.76	23	1.5	6	43.70	24	60.9	16	11.83	30	61.3	22	41.39	25	62.1	6
März 1	30.99	25	0.9	3	43.94	26	59.3	11	12.13	34	59.1	17	41.64	28	61.5	7
11	31.24	27	0.6	1	44.20	28	58.2	6	12.47	37	57.4	11	41.92	30	60.8	8
21	31.51	28	0.5	— 4	44.48	30	57.6	1	12.84	38	56.3	4	42.22	30	60.0	8
31	31.79	28	0.9	6	44.78	31	57.5	— 4	13.22	40	55.9	— 2	42.52	32	59.2	8
April 10	32.07	29	1.5	10	45.09	31	57.9	9	13.62	41	56.1	8	42.84	32	58.4	9
20	32.36	29	2.5	12	45.40	30	58.8	14	14.03	40	56.9	14	43.16	32	57.5	8
30	32.65	28	3.7	14	45.70	30	60.2	18	14.43	37	58.3	19	43.48	32	56.7	9
Mai 10	32.93	27	5.1	16	46.00	28	62.0	22	14.80	35	60.2	24	43.80	31	55.8	7
20	33.20	25	6.7	18	46.28	26	64.2	25	15.15	32	62.6	28	44.11	29	55.1	7
30	33.45	22	8.5	18	46.54	23	66.7	27	15.47	27	65.4	31	44.40	26	54.4	6
Juni 9	33.67	20	10.3	18	46.77	19	69.4	28	15.74	21	68.5	34	44.66	24	53.8	4
19	33.87	16	12.1	18	46.96	16	72.2	28	15.95	16	71.9	34	44.90	19	53.4	3
29	34.03	12	13.9	16	47.12	11	75.0	29	16.11	10	75.3	35	45.09	16	53.1	1
Juli 9	34.15	8	15.5	16	47.23	6	77.9	27	16.21	3	78.8	34	45.25	11	53.0	0
19	34.23	4	17.1	14	47.29	2	80.6	26	16.24	— 2	82.2	33	45.36	6	53.0	1
29	34.27	— 1	18.5	13	47.31	— 2	83.2	24	16.22	10	85.5	31	45.42	1	53.1	3
Aug. 8	34.26	4	19.8	11	47.29	7	85.6	22	16.12	15	88.6	28	45.43	— 3	53.4	4
18	34.22	9	20.9	8	47.22	12	87.8	18	15.97	20	91.4	25	45.40	8	53.8	4
28	34.13	12	21.7	7	47.10	16	89.6	16	15.77	26	93.9	21	45.32	12	54.2	4
Sept. 7	34.01	15	22.4	5	46.94	18	91.2	12	15.51	29	96.0	18	45.20	15	54.6	5
17	33.86	17	22.9	2	46.76	20	92.4	8	15.22	31	97.8	12	45.05	18	55.1	4
27	33.69	18	23.1	1	46.56	21	93.2	4	14.91	34	99.0	7	44.87	19	55.5	3
Oct. 7	33.51	17	23.2	— 1	46.35	22	93.6	0	14.57	34	99.7	3	44.68	19	55.8	2
17	33.34	17	23.1	4	46.13	21	93.6	4	14.23	33	100.0	— 3	44.49	18	56.0	1
27	33.17	15	22.7	5	45.92	19	93.2	7	13.90	31	99.7	8	44.31	16	56.1	1
Nov. 6	33.02	13	22.2	7	45.73	16	92.5	12	13.59	29	98.9	13	44.15	14	56.2	— 1
16	32.89	9	21.5	9	45.57	14	91.3	16	13.30	25	97.6	18	44.01	10	56.1	1
26	32.80	6	20.6	11	45.43	10	89.7	18	13.05	19	95.8	23	43.91	6	56.0	2
Dec. 6	32.74	1	19.5	12	45.33	6	87.9	22	12.86	15	93.5	27	43.85	2	55.8	3
16	32.73	— 2	18.3	13	45.27	1	85.7	24	12.71	9	90.8	30	43.83	— 2	55.5	3
26	32.75	6	17.0	14	45.26	— 3	83.3	25	12.62	2	87.8	32	43.85	7	55.2	3
36	32.81		15.6		45.29		80.8		12.60		84.6		43.92		54.9	
Mittl. Ort	30.38		1.7		43.69		64.9		12.64		67.0		40.93		68.2	
	274)				275)				276)				605)			

1901	ϑ Cygni. 4^m.6. AR.		ϑ Cygni. Decl. +		γ Aquilae. 3^m.0. AR.		γ Aquilae. Decl. +		δ Cygni. 2^m.8. AR.		δ Cygni. Decl. +		δ Sagittae. 4^m.0. AR.		δ Sagittae. Decl. +	
	19^h 33^m		49° 59′		19^h 41^m		10° 22′		19^h 41^m		44° 53′		19^h 42^m		18° 17′	
Jan. 0	45.81		40.0		32.73		25.5		51.75		30.3		57.85		32.1	
10	45.81	0	36.8	32	32.79	6	23.8	17	51.76	1	27.2	31	57.90	5	30.0	21
20	[12] 45.89	8	33.3	35	[13] 32.90	11	22.0	18	[13] 51.84	8	23.8	34	[14] 58.00	10	27.7	23
30	46.03	14	30.1	32	33.03	13	20.4	16	51.96	12	20.8	30	58.13	13	25.7	20
Febr. 9	46.22	19	27.1	30	33.19	16	18.9	15	52.13	17	17.9	29	58.29	16	23.9	18
19	46.46	24	24.5	26	33.38	19	17.7	12	52.35	22	15.4	25	58.48	19	22.3	16
März 1	46.74	28	22.3	22	33.60	22	16.8	9	52.61	26	13.2	22	58.70	22	21.0	13
11	47.06	32	20.7	16	33.84	24	16.2	6	52.90	29	11.6	16	58.94	24	20.1	9
21	47.42	36	19.5	12	34.10	26	16.0	2	53.22	32	10.5	11	59.20	26	19.7	4
31	47.80	38	19.0	5	34.37	27	16.2	—2	53.57	35	10.0	5	59.48	28	19.7	0
April 10	48.19	39	19.2	—2	34.66	29	16.7	5	53.93	36	10.1	—1	59.77	29	20.2	5
20	48.58	39	19.9	7	34.95	29	17.6	9	54.30	37	10.8	7	60.07	30	21.1	9
30	48.97	39	21.3	14	35.24	29	18.9	13	54.66	36	12.1	13	60.37	30	22.4	13
Mai 10	49.34	37	23.2	19	35.53	29	20.5	16	55.01	35	13.9	18	60.66	29	24.0	16
20	49.69	35	25.5	23	35.80	27	22.3	18	55.34	33	16.2	23	60.94	28	26.0	20
30	50.00	31	28.3	28	36.06	26	24.3	20	55.64	30	18.9	27	61.20	26	28.2	22
Juni 9	50.28	28	31.3	30	36.30	24	26.4	21	55.91	27	21.8	29	61.44	24	30.6	24
19	50.50	22	34.6	33	36.51	21	28.6	22	56.14	23	25.0	32	61.65	21	33.1	25
29	50.66	16	38.0	34	36.68	17	30.8	22	56.31	17	28.3	33	61.82	17	35.6	25
Juli 9	50.77	11	41.5	35	36.82	14	32.9	21	56.43	12	31.7	34	61.95	13	38.0	24
19	50.82	5	44.9	34	36.91	9	34.9	20	56.50	7	35.0	33	62.04	9	40.4	24
29	50.80	—2	48.2	33	36.97	6	36.8	19	56.51	1	38.2	32	62.09	5	42.7	23
Aug. 8	50.73	7	51.3	31	36.97	0	38.5	17	56.46	—5	41.3	31	62.09	0	44.8	21
18	50.60	13	54.2	29	36.94	3	40.0	15	56.36	10	44.1	28	62.04	5	46.6	18
28	50.41	19	56.7	25	36.86	8	41.2	12	56.21	15	46.6	25	61.96	8	48.2	16
Sept. 7	50.17	24	58.9	22	36.74	12	42.2	10	56.01	20	48.7	21	61.84	12	49.5	13
17	49.90	27	60.6	17	36.60	14	42.9	7	55.77	24	50.4	17	61.68	16	50.5	10
27	49.60	30	61.9	13	36.44	16	43.4	5	55.51	26	51.7	13	61.51	17	51.2	7
Oct. 7	49.28	32	62.7	8	36.26	18	43.7	3	55.23	28	52.5	8	61.32	19	51.6	4
17	48.96	32	63.0	3	36.08	18	43.6	—1	54.95	28	52.9	4	61.13	19	51.7	1
27	48.64	32	62.8	—2	35.90	18	43.3	3	54.67	28	52.8	—1	60.94	19	51.4	—3
Nov. 6	48.33	31	62.1	7	35.74	16	42.8	5	54.40	27	52.1	7	60.77	17	50.8	6
16	48.06	27	60.9	12	35.60	14	42.0	8	54.16	24	50.9	12	60.62	15	49.9	9
26	47.82	24	59.1	18	35.49	11	40.9	11	53.95	21	49.3	16	60.50	12	48.7	12
Dec. 6	47.62	20	56.9	22	35.41	8	39.6	13	53.77	18	47.2	21	60.41	9	47.2	15
16	47.48	14	54.4	25	35.37	4	38.2	14	53.65	12	44.8	24	60.35	6	45.4	18
26	47.39	9	51.5	29	35.37	0	36.6	16	53.58	7	42.0	28	60.34	1	43.4	20
36	47.37	2	48.3	32	35.41	4	34.9	17	53.56	2	39.1	29	60.37	—3	41.4	20
Mittl. Ort	47.20		29.7		33.15		18.5		52.87		19.8		58.35		24.2	
	498)				277)				278)				279)			

1901	α Aquilae. 1m.3. AR.		Decl. +		ε Draconis. 3m.8. AR.		Decl. +		β Aquilae. 4m.0. AR.		Decl. +		ψ Cygni. 5m.2. AR.		Decl. +	
	19h 45m		8° 36′		19h 48m		70° 0′		19h 50m		6° 9′		19h 53m		52° 10′	
Jan. 0	56.76	6	30.7	16	27.13	14	69.5	33	26.60	6	40.2	14	2.80	3	44.8	31
10	56.82	11	29.1	17	26.99	2	66.2	37	26.66	10	38.8	16	2.77	5	41.7	35
20	[14] 56.93	13	27.4	15	[15] 26.97	12	62.5	34	[15] 26.76	12	37.2	14	[16] 2.82	10	38.2	32
30	57.06	16	25.9	13	27.09	23	59.1	33	26.88	16	35.8	12	2.92	16	35.0	31
Febr. 9	57.22	19	24.6	11	27.32	34	55.8	29	27.04	19	34.6	10	3.08	22	31.9	27
19	57.41	21	23.5	9	27.66	44	52.9	26	27.23	21	33.6	7	3.30	28	29.2	24
März 1	57.62	24	22.6	5	28.10	52	50.3	21	27.44	23	32.9	5	3.58	31	26.8	19
11	57.86	26	22.1	1	28.62	59	48.2	16	27.67	25	32.4	1	3.89	36	24.9	13
21	58.12	27	22.0	2	29.21	65	46.6	9	27.92	27	32.3	2	4.25	38	23.6	8
31	58.39	28	22.2	5	29.86	67	45.7	3	28.19	28	32.5	6	4.63	40	22.8	1
April 10	58.67	29	22.7	10	30.53	68	45.4	4	28.47	29	33.1	10	5.03	41	22.7	6
20	58.96	30	23.7	13	31.21	67	45.8	10	28.76	29	34.1	12	5.44	41	23.3	11
30	59.26	28	25.0	15	31.88	64	46.8	16	29.05	29	35.3	15	5.85	40	24.4	17
Mai 10	59.54	28	26.5	18	32.52	59	48.4	22	29.34	28	36.8	17	6.25	38	26.1	22
20	59.82	27	28.3	20	33.11	52	50.6	26	29.62	27	38.5	19	6.63	34	28.3	26
30	60.09	24	30.3	20	33.63	44	53.2	30	29.89	24	40.4	19	6.97	30	30.9	30
Juni 9	60.33	21	32.3	21	34.07	35	56.2	32	30.13	22	42.3	20	7.27	26	33.9	32
19	60.54	18	34.4	21	34.42	24	59.4	35	30.35	18	44.3	20	7.53	19	37.1	34
29	60.72	15	36.5	21	34.66	14	62.9	36	30.53	15	46.3	19	7.72	14	40.5	35
Juli 9	60.87	10	38.6	20	34.80	3	66.5	36	30.68	11	48.2	18	7.86	7	44.0	35
19	60.97	5	40.6	18	34.83	8	70.1	36	30.79	6	50.0	17	7.93	1	47.5	34
29	61.02	2	42.4	16	34.75	19	73.7	34	30.85	2	51.7	15	7.94	5	50.9	32
Aug. 8	61.04	3	44.0	14	34.56	30	77.1	32	30.87	3	53.2	13	7.89	12	54.1	31
18	61.01	7	45.4	12	34.26	39	80.3	29	30.84	7	54.5	10	7.77	18	57.2	27
28	60.94	11	46.6	9	33.87	47	83.2	26	30.77	10	55.5	9	7.59	22	59.9	24
Sept. 7	60.83	14	47.5	7	33.40	54	85.8	22	30.67	13	56.4	6	7.37	27	62.3	20
17	60.69	16	48.2	5	32.86	60	88.0	17	30.54	16	57.0	4	7.10	31	64.3	16
27	60.53	17	48.7	2	32.26	63	89.7	13	30.38	17	57.4	1	6.79	32	65.9	10
Oct. 7	60.36	18	48.9	0	31.63	66	91.0	7	30.21	18	57.5	0	6.47	34	66.9	6
17	60.18	17	48.9	3	30.97	66	91.7	2	30.03	17	57.5	3	6.13	34	67.5	1
27	60.01	16	48.6	5	30.31	65	91.9	4	29.86	15	57.2	5	5.79	32	67.6	5
Nov. 6	59.85	14	48.1	7	29.66	62	91.5	9	29.71	14	56.7	7	5.47	30	67.1	10
16	59.71	11	47.4	10	29.04	56	90.6	15	29.57	11	56.0	10	5.17	27	66.1	15
26	59.60	8	46.4	12	28.48	49	89.1	20	29.46	8	55.0	11	4.90	23	64.6	20
Dec. 6	59.52	4	45.2	13	27.99	41	87.1	25	29.38	5	53.9	12	4.67	18	62.6	25
16	59.48	0	43.9	15	27.58	31	84.6	28	29.33	0	52.7	14	4.49	12	60.1	28
26	59.48	3	42.4	16	27.27	20	81.8	32	29.33	3	51.3	15	4.37	6	57.3	30
36	59.51		40.8		27.07		78.6		29.36		49.8		4.31		54.3	
Mittl. Ort	57.16		23.8		30.53		56.5		26.97		33.5		4.20		32.9	
	280)				282)				283)				285)			

1901	γ Sagittae. $3^m.6$.				ϑ Aquilae. $3^m.0$.				o^1 seq. Cygni. $4^m.5$.				κ Cephei. $4^m.3$.			
	AR.		Decl. +		AR.		Decl. —		AR.		Decl. +		AR.		Decl. +	
	$19^h\ 54^m$		$19°\ 13'$		$20^h\ 6^m$		$1°\ 6'$		$20^h\ 10^m$		$46°\ 26'$		$20^h\ 12^m$		$77°\ 24'$	
Jan. 0	20.75	4	31.9	21	11.45	4	49.2	10	29.82	3	39.8	29	8.18	37	63.3	30
10	20.79	9	29.8	23	11.49	9	50.2	10	29.79	— 2	36.9	30	7.81	19	60.3	33
20	[16] 20.88	12	27.5	20	[19] 11.58	12	51.2	9	29.81	9	33.9	34	7.62	— 1	57.0	37
30	21.00	15	25.5	19	11.70	15	52.1	8	[20] 29.90	14	30.5	29	[21] 7.63	21	53.3	33
Febr. 9	21.15	18	23.6	17	11.85	17	52.9	6	30.04	18	27.6	27	7.84	39	50.0	31
19	21.33	21	21.9	13	12.02	20	53.5	4	30.22	23	24.9	23	8.23	56	46.9	28
März 1	21.54	23	20.6	9	12.22	22	53.9	1	30.45	28	22.6	19	8.79	72	44.1	24
11	21.77	26	19.7	5	12.44	25	54.0	— 2	30.73	31	20.7	14	9.51	84	41.7	18
21	22.03	27	19.2	1	12.69	27	53.8	4	31.04	34	19.3	8	10.35	94	39.9	13
31	22.30	29	19.1	— 4	12.96	27	53.4	8	31.38	36	18.5	1	11.29	100	38.6	6
April 10	22.59	29	19.5	9	13.23	29	52.6	10	31.74	37	18.4	— 4	12.29	103	38.0	0
20	22.88	30	20.4	13	13.52	29	51.6	12	32.11	38	18.8	10	13.32	102	38.0	6
30	23.18	30	21.7	16	13.81	30	50.4	14	32.49	37	19.8	15	14.34	99	38.6	12
Mai 10	23.48	29	23.3	19	14.11	29	49.0	16	32.86	36	21.3	21	15.33	92	39.8	18
20	23.77	27	25.2	22	14.40	27	47.4	17	33.22	33	23.4	25	16.25	83	41.6	23
30	24.04	24	27.4	24	14.67	26	45.7	17	33.55	30	25.9	28	17.08	71	43.9	27
Juni 9	24.28	22	29.8	26	14.93	23	44.0	18	33.85	26	28.7	31	17.79	58	46.6	31
19	24.50	19	32.4	25	15.16	20	42.2	17	34.11	21	31.8	33	18.37	42	49.7	33
29	24.69	14	34.9	25	15.36	17	40.5	16	34.32	16	35.1	34	18.79	25	53.0	35
Juli 9	24.83	10	37.4	25	15.53	12	38.9	14	34.48	11	38.5	34	19.04	9	56.5	36
19	24.93	6	39.9	23	15.65	8	37.5	13	34.59	4	41.9	34	19.13	— 8	60.1	36
29	24.99	1	42.2	22	15.73	4	36.2	12	34.63	— 1	45.3	32	19.05	24	63.7	35
Aug. 8	25.00	— 4	44.4	19	15.77	— 1	35.0	9	34.62	7	48.5	30	18.81	41	67.2	34
18	24.96	8	46.3	17	15.76	5	34.1	8	34.55	13	51.5	27	18.40	55	70.6	31
28	24.88	11	48.0	14	15.71	9	33.3	6	34.42	17	54.2	24	17.85	69	73.7	29
Sept. 7	24.77	14	49.4	11	15.62	12	32.7	3	34.25	22	56.6	20	17.16	81	76.6	26
17	24.63	17	50.5	8	15.50	14	32.4	2	34.03	24	58.6	17	16.35	91	79.2	21
27	24.46	19	51.3	5	15.36	16	32.2	1	33.79	27	60.3	12	15.44	98	81.3	17
Oct. 7	24.27	19	51.8	1	15.20	17	32.1	— 1	33.52	29	61.5	7	14.46	103	83.0	12
17	24.08	19	51.9	— 2	15.03	17	32.2	3	33.23	28	62.2	2	13.43	106	84.2	6
27	23.89	17	51.7	5	14.86	16	32.5	4	32.95	28	62.4	— 3	12.37	106	84.8	1
Nov. 6	23.72	16	51.2	9	14.70	14	32.9	6	32.67	26	62.1	8	11.31	103	84.9	— 5
16	23.56	13	50.3	12	14.56	11	33.5	7	32.41	24	61.3	13	10.28	97	84.4	11
26	23.43	10	49.1	15	14.45	8	34.2	8	32.17	20	60.0	18	9.31	88	83.3	16
Dec. 6	23.33	6	47.6	17	14.37	5	35.0	9	31.97	16	58.2	22	8.43	77	81.7	21
16	23.27	2	45.9	19	14.32	1	35.9	9	31.81	11	56.0	26	7.66	62	79.6	26
26	23.25	— 1	44.0	21	14.31	— 2	36.8	10	31.70	6	53.4	29	7.04	48	77.0	29
36	23.26		41.9		14.33		37.8		31.64		50.5		6.56		74.1	
Mittl. Ort	21.23		23.4		11.76		55.3		30.85		27.1		13.63		47.8	
	286)				287)				288)				502)			

1901	24 Vulpecul. $5^m.8$. AR.		Decl. +		α^2 Capricorni. $3^m.3$. AR.		Decl. —		γ Cygni. $2^m.4$. AR.		Decl. +		ϑ Cephei. $4^m.0$. AR.		Decl. +	
	$20^h\ 12^m$		$24°\ 21'$		$20^h\ 12^m$		$12°\ 50'$		$20^h\ 18^m$		$39°\ 56'$		$20^h\ 27^m$		$62°\ 39'$	
Jan. 0	32.40		66.4		33.42		62.4		39.76		35.5		53.34		55.7	
10	32.42	2	64.2	22	33.46	4	62.7	3	39.74	2	32.8	27	53.20	14	52.7	30
20	32.47	5	61.9	23	33.54	8	62.9	2	39.76	— 2	30.0	28	53.14	6 —	49.5	32
30	[21] 32.57	10	59.4	25	[21] 33.67	13	63.1	2	[21] 39.85	9	26.8	32	[24] 53.17	3	45.8	37
Febr. 9	32.70	13	57.3	21	33.82	15	63.2	1 —	39.97	12	24.1	27	53.28	11	42.6	32
19	32.87	17	55.4	19	33.99	17	63.1	1	40.14	17	21.6	25	53.48	20	39.5	31
März 1	33.07	20	53.9	15	34.20	21	62.9	2	40.34	20	19.4	22	53.76	28	36.7	28
11	33.29	22	52.7	12	34.43	23	62.5	4	40.59	25	17.7	17	54.11	35	34.4	23
21	33.55	26	51.9	8	34.68	25	61.9	6	40.87	28	16.4	13	54.52	41	32.5	19
31	33.82	27	51.7	2 —	34.95	27	61.1	8	41.18	31	15.7	7	54.98	46	31.2	13
April 10	34.11	29	51.9	2	35.23	28	60.1	10	41.50	32	15.6	1 —	55.48	50	30.6	6
20	34.41	30	52.6	7	35.53	30	59.0	11	41.84	34	16.1	5	56.00	52	30.6	0
30	34.72	31	53.8	12	35.83	30	57.8	12	42.19	35	17.1	10	56.53	53	31.2	6
Mai 10	35.02	30	55.3	15	36.14	31	56.5	13	42.54	35	18.6	15	57.05	52	32.4	12
20	35.32	30	57.3	20	36.44	30	55.1	14	42.88	34	20.6	20	57.55	50	34.2	18
30	35.61	29	59.6	23	36.73	29	53.7	14	43.19	31	23.0	24	58.02	47	36.5	23
Juni 9	35.87	26	62.1	25	37.00	27	52.4	13	43.48	29	25.7	27	58.44	42	39.3	28
19	36.10	23	64.7	26	37.24	24	51.2	12	43.74	26	28.7	30	58.79	35	42.4	31
29	36.30	20	67.4	27	37.46	22	50.1	11	43.95	21	31.8	31	59.08	29	45.7	33
Juli 9	36.46	16	70.2	28	37.64	18	49.1	10	44.12	17	35.1	33	59.30	22	49.2	35
19	36.58	12	72.9	27	37.78	14	48.3	8	44.24	12	38.3	32	59.43	13	52.8	36
29	36.65	7	75.5	26	37.87	9	47.6	7	44.30	6	41.5	32	59.48	5	56.5	37
Aug. 8	36.68	3 —	78.0	25	37.92	5	47.1	5	44.31	1 —	44.5	30	59.44	— 4	60.0	35
18	36.65	3	80.2	22	37.92	0	46.8	3	44.27	4	47.4	29	59.32	12	63.4	34
28	36.58	7	82.2	20	37.88	4	46.7	1	44.18	9	50.0	26	59.13	19	66.6	32
Sept. 7	36.47	11	83.9	17	37.80	8	46.7	0	44.04	14	52.3	23	58.87	26	69.5	29
17	36.33	14	85.3	14	37.68	12	46.7	0	43.86	18	54.2	19	58.54	33	72.1	26
27	36.17	16	86.3	10	37.54	14	46.9	2	43.65	21	55.8	16	58.16	38	74.2	21
Oct. 7	35.98	19	87.0	7	37.38	16	47.2	3	43.42	23	56.9	11	57.74	42	75.9	17
17	35.79	19	87.3	3	37.21	17	47.5	3	43.18	24	57.6	7	57.30	44	77.1	12
27	35.59	20	87.3	0	37.04	17	47.8	3	42.93	25	57.8	2 —	56.84	46	77.8	7
Nov. 6	35.40	19	86.9	4	36.88	16	48.2	4	42.69	24	57.5	3	56.38	46	77.9	1 —
16	35.23	17	86.1	8	36.74	14	48.6	4	42.46	23	56.8	7	55.94	44	77.5	4
26	35.08	15	85.0	11	36.62	12	48.9	3	42.26	20	55.6	12	55.52	42	76.5	10
Dec. 6	34.96	12	83.5	15	36.54	8	49.3	4	42.09	17	53.9	17	55.15	37	74.9	16
16	34.88	8	81.7	18	36.49	5	49.7	4	41.95	14	51.9	20	54.83	32	72.8	21
26	34.83	5	79.7	20	36.47	2 —	50.0	3	41.86	9	49.5	24	54.57	26	70.3	25
36	34.82	1	77.5	22	36.50	3	50.3	3	41.81	5	46.8	27	54.39	18	67.4	29
Mittl. Ort	32.89		56.5		33.71		66.9		40.53		23.1		55.24		40.0	
	501)				607)				289)				291)			

1901	ε Delphini. 4ᵐ.0.				73 Draconis. 5ᵐ.3.				β Delphini. 3ᵐ.3.				υ Capricorni. 5ᵐ.6.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. −	
	$20^h\ 28^m$		10° 57′		$20^h\ 32^m$		74° 36′		$20^h\ 32^m$		14° 15′		$20^h\ 34^m$		18° 28′	
Jan. 0	$28.^s67$	2	$67.''9$	16	$45.^s16$	34	$72.''4$	30	$54.^s04$	1	$10.''9$	17	$24.^s62$	2	$70.''8$	0
10	28.69	5	66.3	16	44.82	21	69.4	32	54.05	4	9.2	18	24.64	6	70.8	2
20	28.74	10	64.7	17	44.61	5	66.2	36	54.09	9	7.4	18	24.70	11	70.6	2
30	[24] 28.84	11	63.0	14	[25] 44.56	12	62.6	33	[26] 54.18	11	5.6	16	[26] 24.81	13	70.4	4
Febr. 9	28.95	15	61.6	12	44.68	27	59.3	32	54.29	15	4.0	14	24.94	16	70.0	5
19	29.10	18	60.4	10	44.95	41	56.1	29	54.44	17	2.6	11	25.10	19	69.5	6
März 1	29.28	21	59.4	6	45.36	54	53.2	25	54.61	21	1.5	8	25.29	22	68.9	8
11	29.49	23	58.8	3	45.90	66	50.7	21	54.82	22	0.7	5	25.51	24	68.1	9
21	29.72	25	58.5	1	46.56	75	48.6	15	55.04	25	0.2	0	25.75	26	67.2	10
31	29.97	27	58.6	4	47.31	81	47.1	9	55.29	28	0.2	4	26.01	28	66.2	12
April 10	30.24	29	59.0	9	48.12	85	46.2	3	55.57	28	0.6	8	26.29	30	65.0	13
20	30.53	29	59.9	12	48.97	86	45.9	4	55.85	30	1.4	11	26.59	31	63.7	13
30	30.82	30	61.1	15	49.83	85	46.3	10	56.15	30	2.5	16	26.90	31	62.4	13
Mai 10	31.12	29	62.6	18	50.68	81	47.3	16	56.45	29	4.1	18	27.21	32	61.1	14
20	31.41	29	64.4	20	51.49	74	48.9	21	56.74	29	5.9	20	27.53	30	59.7	13
30	31.70	27	66.4	21	52.23	66	51.0	26	57.03	27	7.9	22	27.83	29	58.4	12
Juni 9	31.97	24	68.5	22	52.89	55	53.6	30	57.30	25	10.1	24	28.12	27	57.2	11
19	32.21	21	70.7	23	53.44	43	56.6	32	57.55	22	12.5	23	28.39	24	56.1	9
29	32.42	18	73.0	22	53.87	31	59.8	35	57.77	18	14.8	24	28.63	21	55.2	8
Juli 9	32.60	14	75.2	22	54.18	17	63.3	36	57.95	14	17.2	23	28.84	16	54.4	5
19	32.74	9	77.4	20	54.35	3	66.9	37	58.09	10	19.5	22	29.00	12	53.9	4
29	32.83	5	79.4	18	54.38	11	70.6	36	58.19	5	21.7	20	29.12	7	53.5	2
Aug. 8	32.88	1	81.2	17	54.27	25	74.2	35	58.24	0	23.7	18	29.19	3	53.3	0
18	32.89	4	82.9	14	54.02	37	77.7	33	58.24	3	25.5	16	29.22	3	53.3	1
28	32.85	8	84.3	12	53.65	49	81.0	31	58.21	8	27.1	14	29.19	6	53.4	3
Sept. 7	32.77	11	85.5	9	53.16	60	84.1	28	58.13	11	28.5	11	29.13	10	53.7	4
17	32.66	14	86.4	7	52.56	68	86.9	23	58.02	14	29.6	8	29.03	14	54.1	4
27	32.52	16	87.1	4	51.88	76	89.2	19	57.88	16	30.4	5	28.89	15	54.5	5
Oct. 7	32.36	17	87.5	1	51.12	80	91.1	15	57.72	17	30.9	2	28.74	17	55.0	4
17	32.19	17	87.6	1	50.32	84	92.6	9	57.55	17	31.1	0	28.57	17	55.4	4
27	32.02	16	87.5	4	49.48	85	93.5	4	57.38	17	31.1	3	28.40	17	55.8	4
Nov. 6	31.86	15	87.1	6	48.63	83	93.9	2	57.21	16	30.8	7	28.23	15	56.2	4
16	31.71	14	86.5	9	47.80	80	93.7	8	57.05	13	30.1	9	28.08	12	56.6	3
26	31.57	10	85.6	11	47.00	73	92.9	14	56.92	11	29.2	11	27.96	10	56.9	2
Dec. 6	31.47	7	84.5	13	46.27	65	91.5	19	56.81	8	28.1	14	27.86	7	57.1	2
16	31.40	4	83.2	14	45.62	55	89.6	24	56.73	5	26.7	15	27.79	3	57.3	0
26	31.36	1	81.8	16	45.07	42	87.2	28	56.68	1	25.2	17	27.76	0	57.3	0
36	31.35		80.2		44.65		84.4		56.67		23.5		27.76		57.3	
Mittl. Ort	28.98		59.5		49.09		55.2		54.35		1.9		24.88		74.2	
	290)				504)				292)				610)			

1901	α Delphini. $3^m.6$. AR.		Decl. +		α Cygni. $1^m.6$. AR.		Decl. +		ε Cygni. $2^m.6$. AR.		Decl. +		ε Aquarii. $3^m.6$. AR.		Decl. −	
	$20^h\ 35^m$		15° 33′		$20^h\ 38^m$		44° 55′		$20^h\ 42^m$		33° 35′		$20^h\ 42^m$		9° 51′	
Jan. 0	2.05	0	54.5	17	2.61	6	49.3	27	11.82	3	70.0	24	18.79	2	25.7	4
10	2.05	4	52.8	18	2.55	1	46.6	29	11.79	1	67.6	25	18.81	5	26.1	4
20	2.09	8	51.0	20	2.54	5	43.7	33	11.80	6	65.1	28	18.86	9	26.5	3
30	[26] 2.17	11	49.0	16	[27] 2.59	10	40.4	29	[28] 11.86	9	62.3	25	[28] 18.95	12	26.8	1
Febr. 9	2.28	15	47.4	15	2.69	15	37.5	27	11.95	14	59.8	23	19.07	14	26.9	0
19	2.43	17	45.9	12	2.84	19	34.8	23	12.09	18	57.5	20	19.21	18	26.9	1
März 1	2.60	20	44.7	8	3.03	24	32.5	20	12.27	21	55.5	16	19.39	20	26.8	4
11	2.80	23	43.9	5	3.27	28	30.5	16	12.48	24	53.9	12	19.59	22	26.4	6
21	3.03	25	43.4	1	3.55	31	28.9	10	12.72	28	52.7	7	19.81	25	25.8	8
31	3.28	27	43.3	4	3.86	34	27.9	4	13.00	30	52.0	1	20.06	27	25.0	10
April 10	3.55	29	43.7	7	4.20	37	27.5	2	13.30	32	51.9	3	20.33	29	24.0	11
20	3.84	30	44.4	11	4.57	37	27.7	8	13.62	32	52.2	9	20.62	30	22.9	14
30	4.14	30	45.5	16	4.94	37	28.5	13	13.94	33	53.1	14	20.92	30	21.5	15
Mai 10	4.44	30	47.1	18	5.31	36	29.8	18	14.27	33	54.5	19	21.22	30	20.0	15
20	4.74	28	48.9	20	5.67	35	31.6	23	14.60	32	56.4	22	21.52	30	18.5	15
30	5.02	28	50.9	23	6.02	32	33.9	27	14.92	30	58.6	26	21.82	28	17.0	16
Juni 9	5.30	25	53.2	24	6.34	29	36.6	29	15.22	26	61.2	28	22.10	27	15.4	14
19	5.55	21	55.6	24	6.63	24	39.5	32	15.48	24	64.0	29	22.37	23	14.0	14
29	5.76	19	58.0	24	6.87	20	42.7	34	15.72	19	66.9	31	22.60	20	12.6	13
Juli 9	5.95	14	60.4	24	7.07	14	46.1	33	15.91	15	70.0	31	22.80	17	11.3	11
19	6.09	10	62.8	22	7.21	9	49.4	34	16.06	9	73.1	30	22.97	12	10.2	8
29	6.19	5	65.0	21	7.30	3	52.8	32	16.15	5	76.1	29	23.09	7	9.4	7
Aug. 8	6.24	1	67.1	19	7.33	3	56.0	31	16.20	0	79.0	27	23.16	3	8.7	5
18	6.25	4	69.0	17	7.30	9	59.1	29	16.20	5	81.7	25	23.19	2	8.2	4
28	6.21	7	70.7	14	7.21	13	62.0	26	16.15	10	84.2	23	23.17	5	7.8	2
Sept. 7	6.14	11	72.1	12	7.08	18	64.6	22	16.05	13	86.5	19	23.12	10	7.6	0
17	6.03	14	73.3	8	6.90	21	66.8	19	15.92	17	88.4	15	23.02	12	7.6	1
27	5.89	16	74.1	6	6.69	24	68.7	14	15.75	19	89.9	12	22.90	14	7.7	3
Oct. 7	5.73	18	74.7	3	6.45	26	70.1	10	15.56	21	91.1	8	22.76	16	8.0	3
17	5.55	17	75.0	1	6.19	27	71.1	5	15.35	21	91.9	3	22.60	17	8.3	3
27	5.38	17	74.9	3	5.92	27	71.6	0	15.14	22	92.2	1	22.43	16	8.6	5
Nov. 6	5.21	16	74.6	6	5.65	25	71.6	5	14.92	20	92.1	5	22.27	15	9.1	4
16	5.05	14	74.0	9	5.40	24	71.1	10	14.72	18	91.6	10	22.12	12	9.5	5
26	4.91	11	73.1	11	5.16	20	70.1	15	14.54	16	90.6	13	22.00	10	10.0	5
Dec. 6	4.80	8	72.0	14	4.96	17	68.6	19	14.38	12	89.3	18	21.90	7	10.5	5
16	4.72	5	70.6	16	4.79	13	66.7	23	14.26	9	87.5	21	21.83	4	11.0	5
26	4.67	2	69.0	18	4.66	9	64.4	27	14.17	5	85.4	23	21.79	0	11.5	5
36	4.65		67.2		4.57		61.7		14.12		83.1		21.79		12.0	
Mittl. Ort	2.35		45.3		3.41		35.0		12.32		57.3		19.01		30.4	
	293)				294)				298)				297)			

1901	η Cephei. 3m.6. AR.		Decl. +		λ Cygni. 4m.6. AR.		Decl. +		32 Vulpecul. 5m.3. AR.		Decl. +		ν Cygni. 4m.0. AR.		Decl. +	
	20h 43m		61° 27′		20h 43m		36° 7′		20h 50m		27° 40′		20h 53m		40° 47′	
Jan. 0	14.96	16	31.5	29	32.54	4	49.8	25	20.06	3	63.0	22	28.33	6	23.9	26
10	14.80	8	28.6	31	32.50	0	47.3	26	20.03	1	60.8	23	28.27	1	21.3	27
20	14.72	0	25.5	36	32.50	6	44.7	30	20.04	5	58.5	23	28.26	3	18.6	28
30	[28] 14.72	8	21.9	32	[28] 32.56	9	41.7	25	20.09	10	56.2	24	28.29	8	15.8	30
Febr. 9	14.80	17	18.7	31	32.65	14	39.2	24	[30] 20.19	13	53.8	21	[30] 28.37	12	12.8	26
19	14.97	25	15.6	28	32.79	18	36.8	21	20.32	16	51.7	17	28.49	17	10.2	23
März 1	15.22	31	12.8	24	32.97	21	34.7	18	20.48	20	50.0	14	28.66	22	7.9	19
11	15.53	38	10.4	19	33.18	25	32.9	12	20.68	23	48.6	11	28.88	25	6.0	15
21	15.91	43	8.5	14	33.43	28	31.7	8	20.91	25	47.5	5	29.13	29	4.5	10
31	16.34	46	7.1	8	33.71	30	30.9	3	21.16	29	47.0	0	29.42	31	3.5	4
April 10	16.80	50	6.3	2	34.01	33	30.6	3	21.45	30	47.0	4	29.73	34	3.1	1
20	17.30	51	6.1	5	34.34	33	30.9	9	21.75	31	47.4	9	30.07	35	3.2	7
30	17.81	52	6.6	11	34.67	34	31.8	14	22.06	31	48.3	14	30.42	36	3.9	12
Mai 10	18.33	50	7.7	17	35.01	34	33.2	18	22.37	32	49.7	18	30.78	35	5.1	18
20	18.83	46	9.4	22	35.35	32	35.0	22	22.69	31	51.5	21	31.13	34	6.9	21
30	19.29	43	11.6	26	35.67	30	37.2	26	23.00	29	53.6	25	31.47	32	9.0	25
Juni 9	19.72	37	14.2	30	35.97	27	39.8	28	23.29	27	56.1	26	31.79	29	11.5	29
19	20.09	31	17.2	33	36.24	24	42.6	30	23.56	23	58.7	28	32.08	26	14.4	30
29	20.40	24	20.5	35	36.48	19	45.6	31	23.79	20	61.5	29	32.34	21	17.4	32
Juli 9	20.64	17	24.0	36	36.67	15	48.7	32	23.99	15	64.4	29	32.55	16	20.6	33
19	20.81	8	27.6	37	36.82	10	51.9	31	24.14	11	67.3	28	32.71	10	23.9	33
29	20.89	1	31.3	36	36.92	4	55.0	30	24.25	6	70.1	27	32.81	6	27.2	32
Aug. 8	20.90	8	34.9	35	36.96	0	58.0	28	24.31	2	72.8	25	32.87	0	30.4	30
18	20.82	15	38.4	33	36.96	6	60.8	26	24.33	4	75.3	23	32.87	6	33.4	28
28	20.67	22	41.7	30	36.90	10	63.4	23	24.29	8	77.6	20	32.81	10	36.2	25
Sept. 7	20.45	29	44.7	27	36.80	14	65.7	20	24.21	11	79.6	17	32.71	14	38.7	22
17	20.16	34	47.4	23	36.66	17	67.7	16	24.10	15	81.3	14	32.57	18	40.9	19
27	19.82	38	49.7	19	36.49	20	69.3	13	23.95	17	82.7	10	32.39	21	42.8	15
Oct. 7	19.44	41	51.6	14	36.29	22	70.6	8	23.78	19	83.7	7	32.18	23	44.3	10
17	19.03	42	53.0	9	36.07	22	71.4	4	23.59	19	84.4	3	31.95	24	45.3	6
27	18.61	44	53.9	4	35.85	22	71.8	0	23.40	19	84.7	1	31.71	24	45.9	1
Nov. 6	18.17	42	54.3	3	35.63	21	71.8	5	23.21	19	84.6	5	31.47	23	46.0	3
16	17.75	40	54.0	8	35.42	20	71.3	10	23.02	16	84.1	9	31.24	21	45.7	9
26	17.35	37	53.2	13	35.22	16	70.3	14	22.86	14	83.2	13	31.03	19	44.8	13
Dec. 6	16.98	32	51.9	19	35.06	14	68.9	18	22.72	12	81.9	16	30.84	16	43.5	18
16	16.66	26	50.0	24	34.92	10	67.1	21	22.60	8	80.3	18	30.68	13	41.7	21
26	16.40	20	47.6	27	34.82	6	65.0	24	22.52	5	78.5	21	30.55	9	39.6	24
36	16.20		44.9		34.76		62.6		22.47		76.4		30.46		37.2	
Mittl. Ort	16.59		14.7		33.09		36.6		20.43		51.0		28.92		9.4	
	299)				506)				507)				300)			

1901	61 Cygni pr. $5^{m}.7$.*) AR.		Decl. +		ν Aquarii. $4^{m}.3$. AR.		Decl. —		Br. 2777. $5^{m}.8$. AR.		Decl. +		ζ Cygni. $3^{m}.0$. AR.		Decl. +	
	$21^h\ 2^m$		38° 15′		$21^h\ 4^m$		11° 45′		$21^h\ 7^m$		77° 43′		$21^h\ 8^m$		29° 49′	
Jan. 0	26.85	5	58.0	24	11.95	1	77.8	3	24.88	57	49.7	26	43.01	5	27.1	21
10	26.80	0	55.6	25	11.94	3	78.1	2	24.31	43	47.1	30	42.96	1	25.0	23
20	26.80	4	53.1	26	11.97	6	78.3	1	23.88	24	44.1	32	42.95	3	22.7	23
30	26.84	9	50.5	27	12.03	10	78.4	0	23.64	4	40.9	36	42.98	7	20.4	25
Febr. 9	^{2}26.93	13	47.8	24	^{2}12.13	13	78.4	1	^{3}23.60	17	37.3	33	^{3}43.05	11	17.9	22
19	27.06	17	45.4	21	12.26	16	78.3	4	23.77	36	34.0	30	43.16	14	15.7	19
März 1	27.23	22	43.3	18	12.42	18	77.9	5	24.13	54	31.0	28	43.30	18	13.8	16
11	27.45	25	41.5	13	12.60	21	77.4	7	24.67	70	28.2	24	43.48	22	12.2	11
21	27.70	29	40.2	8	12.81	24	76.7	10	25.37	83	25.8	19	43.70	25	11.1	7
31	27.99	31	39.4	2	13.05	25	75.7	11	26.20	93	23.9	14	43.95	27	10.4	3
April 10	28.30	33	39.2	2	13.30	28	74.6	13	27.13	101	22.5	8	44.22	30	10.1	3
20	28.63	35	39.4	8	13.58	30	73.3	14	28.14	106	21.7	1	44.52	32	10.4	8
30	28.98	36	40.2	14	13.88	30	71.9	15	29.20	106	21.6	5	44.84	32	11.2	12
Mai 10	29.34	36	41.6	18	14.18	31	70.4	16	30.26	104	22.1	11	45.16	33	12.4	17
20	29.70	34	43.4	23	14.49	30	68.8	16	31.30	98	23.2	17	45.49	32	14.1	21
30	30.04	33	45.7	26	14.79	30	67.2	16	32.28	89	24.9	22	45.81	30	16.2	23
Juni 9	30.37	30	48.3	29	15.09	28	65.6	15	33.17	78	27.1	25	46.11	28	18.5	27
19	30.67	26	51.2	31	15.37	25	64.1	13	33.95	65	29.6	30	46.39	26	21.2	28
29	30.93	22	54.3	32	15.62	22	62.8	12	34.60	50	32.6	33	46.65	21	24.0	29
Juli 9	31.15	17	57.5	33	15.84	18	61.6	11	35.10	34	35.9	35	46.86	17	26.9	29
19	31.32	12	60.8	33	16.02	14	60.5	8	35.44	18	39.4	37	47.03	13	29.8	29
29	31.44	7	64.1	32	16.16	10	59.7	6	35.62	1	43.1	37	47.16	8	32.7	28
Aug. 8	31.51	2	67.3	30	16.26	5	59.1	5	35.63	16	46.8	36	47.24	3	35.5	27
18	31.53	3	70.3	28	16.31	0	58.6	2	35.47	32	50.4	36	47.27	1	38.2	24
28	31.50	9	73.1	26	16.31	3	58.4	1	35.15	48	54.0	34	47.26	7	40.6	22
Sept. 7	31.41	12	75.7	22	16.28	8	58.3	1	34.67	62	57.4	31	47.19	10	42.8	19
17	31.29	16	77.9	19	16.20	11	58.4	2	34.05	73	60.5	28	47.09	13	44.7	16
27	31.13	19	79.8	15	16.09	13	58.6	3	33.32	85	63.3	24	46.96	16	46.3	12
Oct. 7	30.94	20	81.3	11	15.96	15	58.9	4	32.47	93	65.7	20	46.80	19	47.5	9
17	30.74	21	82.4	6	15.81	16	59.3	5	31.54	100	67.7	15	46.61	19	48.4	4
27	30.53	22	83.0	2	15.65	15	59.8	5	30.54	103	69.2	9	46.42	19	48.8	1
Nov. 6	30.31	21	83.2	3	15.50	15	60.3	4	29.51	105	70.1	4	46.23	19	48.9	3
16	30.10	19	82.9	8	15.35	14	60.7	5	28.46	103	70.5	2	46.04	17	48.6	8
26	29.91	17	82.1	12	15.21	11	61.2	5	27.43	97	70.3	8	45.87	16	47.8	11
Dec. 6	29.74	14	80.9	16	15.10	8	61.7	4	26.46	90	69.5	14	45.71	13	46.7	15
16	29.60	11	79.3	19	15.02	5	62.1	4	25.56	80	68.1	20	45.58	10	45.2	18
26	29.49	7	77.4	22	14.97	2	62.5	4	24.76	68	66.1	24	45.48	7	43.4	21
36	29.42		75.2		14.95		62.9		24.08		63.7		45.41		41.3	
Mittl. Ort	27.35		43.9		12.10		81.9		29.11		29.7		43.31		14.0	
	302)				611)				510)				303)			

*) Die jährliche Parallaxe ist bereits angebracht.

1901	α Equulei. $4^m.0$.				α Cephei. $2^m.6$.				1 Pegasi. $4^m.3$.				ζ Capricorni. $4^m.1$.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. —	
	$21^h\ 10^m$		4° 50′		$21^h\ 16^m$		62° 9′		$21^h\ 17^m$		19° 22′		$21^h\ 21^m$		22° 50′	
Jan. 0	52.35	1	26.0	12	11.73	21	75.9	26	30.27	3	62.1	18	0.81	2	24.8	4
10	52.34	— 1	24.8	11	11.52	15	73.3	30	30.24	1	60.3	18	0.79	— 1	24.4	4
20	52.35	5	23.7	12	11.37	7	70.3	31	30.23	— 3	58.5	19	0.80	5	24.0	6
30	52.40	8	22.5	11	11.30	— 2	67.2	35	30.26	7	56.6	19	0.85	9	23.4	8
Febr. 9	[4] 52.48	11	21.4	8	[5] 11.32	10	63.7	32	[5] 30.33	10	54.7	16	[6] 0.94	11	22.6	9
19	52.59	14	20.6	6	11.42	19	60.5	30	30.43	13	53.1	14	1.05	15	21.7	10
März 1	52.73	17	20.0	3	11.61	26	57.5	26	30.56	17	51.7	11	1.20	18	20.7	12
11	52.90	20	19.7	1	11.87	34	54.9	22	30.73	20	50.6	8	1.38	21	19.5	13
21	53.10	23	19.6	— 3	12.21	40	52.7	18	30.93	23	49.8	3	1.59	23	18.2	14
31	53.33	25	19.9	6	12.61	45	50.9	12	31.16	25	49.5	— 1	1.82	26	16.8	15
April 10	53.58	27	20.5	9	13.06	49	49.7	5	31.41	28	49.6	5	2.08	29	15.3	16
20	53.85	28	21.4	12	13.55	52	49.2	0	31.69	29	50.1	9	2.37	30	13.7	16
30	54.13	30	22.6	15	14.07	53	49.2	7	31.98	31	51.0	14	2.67	31	12.1	17
Mai 10	54.43	30	24.1	17	14.60	52	49.9	13	32.29	31	52.4	17	2.98	33	10.4	15
20	54.73	30	25.8	19	15.12	51	51.2	17	32.60	30	54.1	20	3.31	32	8.9	15
30	55.03	29	27.7	20	15.63	47	52.9	23	32.90	30	56.1	22	3.63	32	7.4	13
Juni 9	55.32	27	29.7	20	16.10	43	55.2	27	33.20	28	58.3	24	3.95	30	6.1	12
19	55.59	24	31.7	21	16.53	37	57.9	31	33.48	25	60.7	25	4.25	28	4.9	10
29	55.83	22	33.8	20	16.90	31	61.0	34	33.73	22	63.2	26	4.53	25	3.9	7
Juli 9	56.05	18	35.8	19	17.21	23	64.4	35	33.95	18	65.8	25	4.78	21	3.2	5
19	56.23	13	37.7	17	17.44	15	67.9	37	34.13	14	68.3	25	4.99	16	2.7	2
29	56.36	10	39.4	16	17.59	8	71.6	36	34.27	9	70.8	24	5.15	12	2.5	0
Aug. 8	56.46	5	41.0	15	17.67	— 1	75.2	36	34.36	5	73.2	22	5.27	7	2.5	1
18	56.51	0	42.5	12	17.66	9	78.8	35	34.41	0	75.4	19	5.34	3	2.6	4
28	56.51	3	43.7	9	17.57	16	82.3	32	34.41	4	77.3	18	5.37	— 3	3.0	6
Sept. 7	56.48	8	44.6	8	17.41	23	85.5	30	34.37	7	79.1	15	5.34	6	3.6	7
17	56.40	10	45.4	5	17.18	29	88.5	26	34.30	11	80.6	12	5.28	11	4.3	7
27	56.30	13	45.9	3	16.89	35	91.1	23	34.19	14	81.8	9	5.17	13	5.0	8
Oct. 7	56.17	15	46.2	1	16.54	38	93.4	18	34.05	16	82.7	5	5.04	15	5.8	7
17	56.02	15	46.3	— 1	16.16	41	95.2	13	33.89	16	83.2	3	4.89	16	6.5	7
27	55.87	15	46.2	3	15.75	42	96.5	8	33.73	17	83.5	— 1	4.73	17	7.2	6
Nov. 6	55.72	15	45.9	5	15.33	42	97.3	2	33.56	16	83.4	3	4.56	16	7.8	5
16	55.57	14	45.4	7	14.91	42	97.5	— 4	33.40	16	83.1	7	4.40	14	8.3	4
26	55.43	11	44.7	8	14.49	39	97.1	10	33.24	13	82.4	10	4.26	13	8.7	2
Dec. 6	55.32	9	43.9	10	14.10	35	96.1	15	33.11	11	81.4	12	4.13	10	8.9	1
16	55.23	6	42.9	11	13.75	31	94.6	20	33.00	9	80.2	15	4.03	7	9.0	0
26	55.17	4	41.8	11	13.44	25	92.6	25	32.91	5	78.7	17	3.96	4	9.0	2
36	55.13		40.7		13.19		90.1		32.86		77.0		3.92		8.8	
Mittl. Ort	52.47		18.2		13.03		56.9		30.42		50.9		0.97		26.3	
	304)				306)				512)				612)			

1901	β Aquarii. $3^m.0$ AR.		Decl. −		β Cephei. $3^m.0$ AR.		Decl. +		74 Cygni. $5^m.0$ AR.		Decl. +		ε Pegasi. $2^m.3$ AR.		Decl. +	
	$21^h 26^m$		5° 59′		$21^h 27^m$		70° 7′		$21^h 32^m$		39° 58′		$21^h 39^m$		9° 25′	
Jan. 0	20.78		79.6		21.16		54.0		58.52		22.5		19.40		24.6	
10	20.75	3	80.2	6	20.80	36	51.5	25	58.42	10	20.2	23	19.36	4	23.4	12
20	20.76	1	80.8	6	20.53	27	48.7	28	58.36	6	17.7	25	19.34	2	22.1	13
30	20.80	4	81.2	4	20.37	16	45.6	31	58.34	2	15.1	26	19.36	2	20.8	13
Febr. 9	20.87	7	81.5	3	20.32	5	42.0	36	58.37	3	12.5	26	19.41	5	19.6	12
19	20.97	10	81.6	1	20.40	8	38.8	32	58.46	9	9.7	28	19.49	8	18.4	12
März 1	21.10	13	81.6	0	20.60	20	35.7	31	58.58	12	7.3	24	19.60	11	17.6	8
11	21.26	16	81.3	3	20.91	31	32.8	29	58.75	17	5.3	20	19.75	15	17.0	6
21	21.45	19	80.8	5	21.32	41	30.3	25	58.96	21	3.6	17	19.92	17	16.7	3
31	21.67	22	80.1	7	21.83	51	28.3	20	59.21	25	2.4	12	20.13	21	16.7	0
April 10	21.91	24	79.1	10	22.41	58	26.9	14	59.49	28	1.7	7	20.36	23	17.1	4
20	22.17	26	77.9	12	23.05	64	26.0	9	59.81	32	1.5	2	20.62	26	17.9	8
30	22.45	28	76.5	14	23.72	67	25.7	3	60.15	34	1.9	4	20.90	28	19.0	11
Mai 10	22.75	30	74.9	16	24.42	70	26.1	4	60.50	35	2.8	9	21.20	30	20.4	14
20	23.05	30	73.2	17	25.12	70	27.1	10	60.86	36	4.2	14	21.50	30	22.0	16
30	23.36	31	71.4	18	25.78	66	28.7	16	61.22	36	6.1	19	21.80	30	23.9	19
Juni 9	23.66	30	69.7	17	26.41	63	30.8	21	61.56	34	8.3	22	22.10	30	26.0	21
19	23.94	28	67.9	18	26.98	57	33.3	25	61.88	32	10.9	26	22.38	28	28.2	22
29	24.20	26	66.3	16	27.47	49	36.2	29	62.17	29	13.8	29	22.65	27	30.4	22
Juli 9	24.43	23	64.7	16	27.88	41	39.5	33	62.42	25	16.9	31	22.88	23	32.6	22
19	24.63	20	63.3	14	28.18	30	43.0	35	62.63	21	20.0	31	23.08	20	34.8	22
29	24.78	15	62.1	12	28.39	21	46.6	36	62.79	16	23.3	33	23.25	17	36.8	20
Aug. 8	24.90	12	61.1	10	28.49	10	50.3	37	62.89	10	26.5	32	23.37	12	38.7	19
18	24.97	7	60.2	9	28.48	1	54.0	37	62.94	5	29.6	31	23.44	7	40.4	17
28	24.99	2	59.6	6	28.36	12	57.6	36	62.94	0	32.5	29	23.47	3	41.9	15
Sept. 7	24.97	2	59.3	3	28.15	21	61.1	35	62.89	5	35.2	27	23.46	1	43.2	13
17	24.92	5	59.1	2	27.84	31	64.3	32	62.80	9	37.7	25	23.41	5	44.2	10
27	24.83	9	59.0	1	27.44	40	67.2	29	62.67	13	39.8	21	23.33	8	45.0	8
Oct. 7	24.71	12	59.1	1	26.98	46	69.7	25	62.50	17	41.5	17	23.22	11	45.6	6
17	24.58	13	59.4	3	26.45	53	71.8	21	62.30	20	42.9	14	23.09	13	45.9	3
27	24.43	15	59.8	4	25.88	57	73.4	16	62.09	21	43.8	9	22.94	15	45.9	0
Nov. 6	24.27	16	60.2	4	25.29	59	74.5	11	61.87	22	44.3	5	22.79	15	45.8	1
16	24.13	14	60.7	5	24.68	61	75.0	5	61.65	22	44.4	1	22.64	15	45.4	4
26	23.99	14	61.3	6	24.08	60	75.0	0	61.44	21	43.9	5	22.50	14	44.7	7
Dec. 6	23.88	11	61.9	6	23.50	58	74.3	7	61.24	20	43.0	9	22.38	12	43.9	8
16	23.78	10	62.6	7	22.96	54	73.1	12	61.07	17	41.7	13	22.27	11	43.0	9
26	23.71	7	63.2	6	22.47	49	71.3	18	60.92	15	39.9	18	22.19	8	41.8	12
36	23.67	4	63.9	7	22.06	41	69.0	23	60.80	12	37.8	21	22.13	6	40.6	12
Mittl. Ort	20.84		84.8		23.10		33.4		58.81		6.3		19.41		15.6	
			307)				308)				514)				309)	

1901	δ Capricorni. $3^m.0$ AR.	Δ	Decl. —	Δ	π² Cygni. $4^m.3$ AR.	Δ	Decl. +	Δ	16 Pegasi. $5^m.3$ AR.	Δ	Decl. +	Δ	α Aquarii. 3.0. AR.	Δ	Decl. —	Δ
	$21^h\ 41^m$		$16°\ 34'$		$21^h\ 43^m$		$48°\ 50'$		$21^h\ 48^m$		$25°\ 27'$		$22^h\ 0^m$		$0°\ 47'$	
Jan. 0	34.60	4	34.0	1	7.73	14	82.6	23	33.40	8	46.2	18	42.01	5	56.9	8
10	34.56	1	34.1	— 1	7.59	10	80.3	26	33.32	4	44.4	19	41.96	2	57.7	8
20	34.55	— 3	34.0	2	7.49	5	77.7	28	33.28	1	42.5	21	41.94	0	58.5	7
30	34.58	5	33.8	3	7.44	0	74.9	29	33.27	— 3	40.4	19	41.94	3	59.2	5
Febr. 9	34.63	10	33.5	6	7.44	6	72.0	31	33.30	7	38.5	21	41.97	7	59.7	5
19	[11] 34.73	12	32.9	7	[12] 7.50	12	68.9	27	[13] 33.37	10	36.4	17	[16] 42.04	9	60.2	2
März 1	34.85	15	32.2	9	7.62	17	66.2	24	33.47	14	34.7	15	42.13	12	60.4	0
11	35.00	18	31.3	11	7.79	22	63.8	20	33.61	17	33.2	11	42.25	16	60.4	3
21	35.18	22	30.2	12	8.01	27	61.8	16	33.78	21	32.1	7	42.41	19	60.1	5
31	35.40	24	29.0	14	8.28	32	60.2	11	33.99	25	31.4	3	42.60	22	59.6	8
April 10	35.64	26	27.6	16	8.60	35	59.1	5	34.24	27	31.1	— 2	42.82	24	58.8	11
20	35.90	29	26.0	16	8.95	38	58.6	0	34.51	29	31.3	7	43.06	27	57.7	14
30	36.19	30	24.4	17	9.33	39	58.6	7	34.80	31	32.0	10	43.33	29	56.3	15
Mai 10	36.49	31	22.7	17	9.72	41	59.3	11	35.11	32	33.0	15	43.62	30	54.8	17
20	36.80	32	21.0	17	10.13	40	60.4	17	35.43	32	34.5	19	43.92	30	53.1	19
30	37.12	31	19.3	16	10.53	38	62.1	22	35.75	32	36.4	21	44.22	30	51.2	19
Juni 9	37.43	30	17.7	14	10.91	36	64.3	25	36.07	30	38.5	24	44.52	30	49.3	20
19	37.73	28	16.3	13	11.27	33	66.8	29	36.37	28	40.9	26	44.82	27	47.3	19
29	38.01	26	15.0	11	11.60	29	69.7	32	36.65	25	43.5	27	45.09	25	45.4	18
Juli 9	38.27	22	13.9	9	11.89	23	72.9	33	36.90	21	46.2	28	45.34	22	43.6	17
19	38.49	18	13.0	7	12.12	18	76.2	34	37.11	17	49.0	27	45.56	19	41.9	16
29	38.67	13	12.3	4	12.30	12	79.6	34	37.28	12	51.7	27	45.75	14	40.3	14
Aug. 8	38.80	9	11.9	2	12.42	6	83.0	34	37.40	8	54.4	25	45.89	10	38.9	11
18	38.89	4	11.7	0	12.48	0	86.4	32	37.48	3	56.9	23	45.99	5	37.8	10
28	38.93	0	11.7	2	12.48	5	89.6	31	37.51	— 1	59.2	22	46.04	2	36.8	7
Sept. 7	38.93	4	11.9	4	12.43	11	92.7	28	37.50	5	61.4	18	46.06	— 3	36.1	5
17	38.89	9	12.3	5	12.32	15	95.5	25	37.45	9	63.2	16	46.03	6	35.6	3
27	38.80	11	12.8	6	12.17	19	98.0	22	37.36	12	64.8	13	45.97	9	35.3	1
Oct. 7	38.69	13	13.4	6	11.98	23	100.2	17	37.24	15	66.1	10	45.88	11	35.2	— 1
17	38.56	15	14.0	7	11.75	25	101.9	13	37.09	16	67.1	6	45.77	13	35.3	2
27	38.41	15	14.7	6	11.50	26	103.2	8	36.93	16	67.7	3	45.64	14	35.5	4
Nov. 6	38.26	15	15.3	6	11.24	27	104.0	3	36.77	17	68.0	— 1	45.50	14	35.9	5
16	38.11	14	15.9	6	10.97	26	104.3	— 2	36.60	16	67.9	5	45.36	14	36.4	5
26	37.97	13	16.5	4	10.71	25	104.1	7	36.44	16	67.4	8	45.22	12	36.9	7
Dec. 6	37.84	10	16.9	4	10.46	23	103.4	13	36.28	13	66.6	12	45.10	11	37.6	8
16	37.74	8	17.3	3	10.23	20	102.1	17	36.15	11	65.4	14	44.99	9	38.4	8
26	37.66	5	17.6	1	10.03	17	100.4	21	36.04	9	64.0	17	44.90	6	39.2	8
36	37.61		17.7		9.86		98.3		35.95		62.3		44.84		40.0	
Mittl. Ort	34.64		36.5		8.14		64.3		33.42		32.9		41.92		63.3	
	615)				517)				518)				311)			

1901	ι Aquarii. 4ᵐ.0. AR.	Δ	Decl. −	Δ	20 Cephei. 5ᵐ.8. AR.	Δ	Decl. +	Δ	ϑ Pegasi. 3ᵐ.3. AR.	Δ	Decl. +	Δ	π Pegasi. 4ᵐ.2. AR.	Δ	Decl. +	Δ
	22ʰ 1ᵐ		14° 20′		22ʰ 1ᵐ		62° 18′		22ʰ 5ᵐ		5° 42′		22ʰ 5ᵐ		32° 41′	
Jan. 0	5.47	5	57.8	2	59.20	28	30.6	22	12.47	5	46.6	10	35.41	10	48.3	19
10	5.42	3	58.0	1	58.92	22	28.4	25	12.42	4	45.6	11	35.31	7	46.4	21
20	5.39	— 1	58.1	— 1	58.70	15	25.9	29	12.38	0	44.5	10	35.24	3	44.3	22
30	5.40	3	58.0	3	58.55	8	23.0	31	12.38	2	43.5	9	35.21	0	42.1	22
Febr. 9	5.43	7	57.7	4	58.47	— 1	19.9	34	12.40	6	42.6	9	35.21	4	39.9	25
19	[16] 5.50	10	57.3	6	[17] 58.48	9	16.5	31	[18] 12.46	9	41.7	7	[18] 35.25	8	37.4	20
März 1	5.60	13	56.7	8	58.57	18	13.4	28	12.55	12	41.0	3	35.33	12	35.4	18
11	5.73	16	55.9	10	58.75	26	10.6	25	12.67	15	40.7	1	35.45	17	33.6	15
21	5.89	19	54.9	12	59.01	33	8.1	22	12.82	18	40.6	— 2	35.62	21	32.1	11
31	6.08	22	53.7	14	59.34	40	5.9	16	13.00	22	40.8	5	35.83	24	31.0	7
April 10	6.30	25	52.3	16	59.74	45	4.3	11	13.22	24	41.3	9	36.07	27	30.3	1
20	6.55	28	50.7	17	60.19	50	3.2	4	13.46	27	42.2	11	36.34	31	30.2	— 3
30	6.83	29	49.0	17	60.69	52	2.8	— 1	13.73	29	43.3	14	36.65	32	30.5	8
Mai 10	7.12	31	47.3	18	61.21	54	2.9	7	14.02	30	44.7	17	36.97	34	31.3	13
20	7.43	31	45.5	18	61.75	53	3.6	13	14.32	30	46.4	19	37.31	34	32.6	16
30	7.74	32	43.7	17	62.28	52	4.9	18	14.62	31	48.3	20	37.65	34	34.2	21
Juni 9	8.06	30	42.0	16	62.80	49	6.7	23	14.93	29	50.3	21	37.99	32	36.3	24
19	8.36	29	40.4	15	63.29	44	9.0	27	15.22	28	52.4	21	38.31	30	38.7	26
29	8.65	26	38.9	13	63.73	39	11.7	30	15.50	25	54.5	20	38.61	27	41.3	28
Juli 9	8.91	23	37.6	11	64.12	32	14.7	34	15.75	23	56.5	20	38.88	23	44.1	29
19	9.14	19	36.5	9	64.44	25	18.1	35	15.98	18	58.5	19	39.11	19	47.0	30
29	9.33	15	35.6	6	64.69	17	21.6	36	16.16	15	60.4	18	39.30	14	50.0	29
Aug. 8	9.48	11	35.0	4	64.86	9	25.2	36	16.31	10	62.2	15	39.44	10	52.9	28
18	9.59	6	34.6	1	64.95	1	28.8	36	16.41	6	63.7	13	39.54	5	55.7	27
28	9.65	1	34.5	— 1	64.96	— 6	32.4	35	16.47	1	65.0	11	39.59	0	58.4	26
Sept. 7	9.66	— 2	34.6	2	64.90	13	35.9	33	16.48	— 2	66.1	9	39.59	5	61.0	23
17	9.64	6	34.8	4	64.77	21	39.2	31	16.46	6	67.0	7	39.54	8	63.3	19
27	9.58	10	35.2	6	64.56	26	42.3	27	16.40	9	67.7	4	39.46	12	65.2	17
Oct. 7	9.48	12	35.8	6	64.30	31	45.0	23	16.31	11	68.1	2	39.34	14	66.9	14
17	9.36	13	36.4	7	63.99	35	47.3	18	16.20	13	68.3	0	39.20	16	68.3	9
27	9.23	14	37.1	6	63.64	38	49.1	14	16.07	13	68.3	2	39.04	18	69.2	6
Nov. 6	9.09	15	37.7	7	63.26	40	50.5	8	15.94	14	68.1	4	38.86	18	69.8	2
16	8.94	14	38.4	6	62.86	41	51.3	3	15.80	14	67.7	5	38.68	18	70.0	— 3
26	8.80	13	39.0	5	62.45	40	51.6	— 3	15.66	13	67.2	8	38.50	17	69.7	6
Dec. 6	8.67	11	39.5	5	62.05	38	51.3	9	15.53	11	66.4	8	38.33	16	69.1	11
16	8.56	9	40.0	4	61.67	35	50.4	14	15.42	9	65.6	10	38.17	14	68.0	14
26	8.47	6	40.4	2	61.32	31	49.0	20	15.33	7	64.6	10	38.03	12	66.6	17
36	8.41		40.6		61.01		47.0		15.26		63.6		37.91		64.9	
Mittl. Ort	5.42		60.5		59.89		9.2		12.35		38.5		35.38		32.8	
	616)				520)				314)				315)			

1901	ζ Cephei. 3ᵐ.4. AR.		Decl. +		24 Cephei. 4ᵐ.8. AR.		Decl. +		θ Aquarii. 4ᵐ.3. AR.		Decl. —		γ Aquarii. 3ᵐ.4. AR.		Decl. —	
	$22^h\ 7^m$		57° 42′		$22^h\ 7^m$		71° 51′		$22^h\ 11^m$		8° 16′		$22^h\ 16^m$		1° 52′	
Jan. 0	24.61	23	68.0	22	52.88	48	35.4	20	36.72	6	30.9	4	32.72	6	64.9	7
10	24.38	18	65.8	25	52.40	39	33.4	25	36.66	3	31.3	4	32.66	4	65.6	7
20	24.20	13	63.3	27	52.01	29	30.9	29	36.63	1	31.7	3	32.62	1	66.3	6
30	24.07	6	60.6	30	51.72	18	28.0	31	36.62	— 2	32.0	1	32.61	— 1	66.9	5
Febr. 9	24.01	0	57.6	33	51.54	5	24.9	35	36.64	6	32.1	— 1	32.62	5	67.4	3
19	[18] 24.01	8	54.3	30	[18] 51.49	— 9	21.4	32	36.70	9	32.0	2	32.67	8	67.7	2
März 1	24.09	16	51.3	28	51.58	22	18.2	31	[19] 36.79	11	31.8	5	[20] 32.75	11	67.9	— 1
11	24.25	22	48.5	24	51.80	34	15.1	27	36.90	15	31.3	7	32.86	14	67.8	4
21	24.47	29	46.1	20	52.14	45	12.4	24	37.05	18	30.6	9	33.00	18	67.4	6
31	24.76	35	44.1	16	52.59	56	10.0	19	37.23	21	29.7	12	33.18	20	66.8	8
April 10	25.11	40	42.5	10	53.15	64	8.1	13	37.44	24	28.5	13	33.38	24	66.0	11
20	25.51	44	41.5	4	53.79	70	6.8	8	37.68	27	27.2	16	33.62	26	64.9	14
30	25.95	46	41.1	— 1	54.49	74	6.0	2	37.95	28	25.6	17	33.88	28	63.5	16
Mai 10	26.41	48	41.2	8	55.23	76	5.8	— 4	38.23	31	23.9	18	34.16	30	61.9	18
20	26.89	48	42.0	13	55.99	75	6.2	11	38.54	31	22.1	18	34.46	31	60.1	18
30	27.37	47	43.3	18	56.74	73	7.3	16	38.85	30	20.3	19	34.77	30	58.3	19
Juni 9	27.84	44	45.1	23	57.47	68	8.9	21	39.15	30	18.4	18	35.07	30	56.4	20
19	28.28	40	47.4	27	58.15	62	11.0	26	39.45	29	16.6	17	35.37	29	54.4	19
29	28.68	36	50.1	30	58.77	54	13.6	29	39.74	26	14.9	16	35.66	26	52.5	19
Juli 9	29.04	30	53.1	33	59.31	44	16.5	32	40.00	23	13.3	14	35.92	23	50.6	17
19	29.34	24	56.4	35	59.75	34	19.7	35	40.23	20	11.9	12	36.15	19	48.9	15
29	29.58	17	59.9	35	60.09	23	23.2	37	40.43	16	10.7	10	36.34	16	47.4	13
Aug. 8	29.75	11	63.4	36	60.32	12	26.9	37	40.59	11	9.7	7	36.50	12	46.1	12
18	29.86	3	67.0	35	60.44	0	30.6	37	40.70	7	9.0	6	36.62	7	44.9	9
28	29.89	— 4	70.5	34	60.44	11	34.3	37	40.77	2	8.4	3	36.69	3	44.0	6
Sept. 7	29.85	10	73.9	32	60.33	21	38.0	35	40.79	— 1	8.1	0	36.72	— 1	43.4	5
17	29.75	16	77.1	30	60.12	31	41.5	32	40.78	5	8.1	1	36.71	5	42.9	2
27	29.59	21	80.1	26	59.81	40	44.7	30	40.73	9	8.2	2	36.66	8	42.7	0
Oct. 7	29.38	26	82.7	22	59.41	48	47.7	26	40.64	11	8.4	4	36.58	10	42.7	1
17	29.12	29	84.9	18	58.93	54	50.3	21	40.53	12	8.8	5	36.48	12	42.8	3
27	28.83	32	86.7	13	58.39	60	52.4	17	40.41	14	9.3	6	36.36	13	43.1	4
Nov. 6	28.51	33	88.0	8	57.79	63	54.1	11	40.27	13	9.9	6	36.23	14	43.5	5
16	28.18	34	88.8	3	57.16	64	55.2	6	40.14	14	10.5	7	36.09	13	44.0	6
26	27.84	33	89.1	— 3	56.52	64	55.8	— 1	40.00	12	11.2	6	35.96	13	44.6	6
Dec. 6	27.51	32	88.8	9	55.88	62	55.7	6	39.88	11	11.8	6	35.83	11	45.2	8
16	27.19	29	87.9	14	55.26	59	55.1	13	39.77	10	12.4	6	35.72	9	46.0	7
26	26.90	26	86.5	19	54.67	52	53.8	18	39.67	7	13.0	5	35.63	8	46.7	7
36	26.64		84.6		54.15		52.0		39.60		13.5		35.55		47.4	
Mittl. Ort	25.03		47.1		54.22		12.5		36.60		35.0		32.55		70.8	
	316)				521)				522)				317)			

1901	3 Lacertae. $4^m.4$.				7 Lacertae. $4^m.0$.				η Aquarii. $3^m.8$.				10 Lacertae. $5^m.0$.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. −		AR.		Decl. +	
	$22^h\ 19^m$		$51°\ 43'$		$22^h\ 27^m$		$49°\ 46'$		$22^h\ 30^m$		$0°\ 37'$		$22^h\ 34^m$		$38°\ 32'$	
Jan. 0	39.79	19	78.3	20	12.67	18	43.8	19	16.36	7	34.4	8	49.28	13	23.2	18
10	39.60	16	76.3	23	12.49	15	41.9	23	16.29	5	35.2	7	49.15	11	21.4	20
20	39.44	11	74.0	27	12.34	11	39.6	25	16.24	2	35.9	7	49.04	8	19.4	22
30	39.33	6	71.3	28	12.23	7	37.1	27	16.22	0	36.6	5	48.96	4	17.2	23
Febr. 9	39.27	1	68.5	28	12.16	1	34.4	28	16.22	3	37.1	4	48.92	0	14.9	24
19	39.26	7	65.7	31	12.15	5	31.6	30	16.25	7	37.5	2	48.92	5	12.5	26
März 1	[21] 39.33	12	62.6	26	[23] 12.20	11	28.6	26	[24] 16.32	9	37.7	0	[25] 48.97	9	9.9	21
11	39.45	19	60.0	23	12.31	17	26.0	22	16.41	13	37.7	3	49.06	14	7.8	18
21	39.64	24	57.7	19	12.48	23	23.8	19	16.54	16	37.4	5	49.20	18	6.0	15
31	39.88	29	55.8	15	12.71	28	21.9	15	16.70	20	36.9	8	49.38	23	4.5	11
April 10	40.17	34	54.3	9	12.99	32	20.4	9	16.90	23	36.1	11	49.61	27	3.4	5
20	40.51	38	53.4	4	13.31	36	19.5	4	17.13	25	35.0	13	49.88	31	2.9	1
30	40.89	41	53.0	2	13.67	39	19.1	2	17.38	28	33.7	16	50.19	33	2.8	4
Mai 10	41.30	43	53.2	7	14.06	41	19.3	7	17.66	29	32.1	17	50.52	35	3.2	9
20	41.73	43	53.9	12	14.47	42	20.0	12	17.95	30	30.4	19	50.87	36	4.1	14
30	42.16	42	55.1	18	14.89	41	21.2	17	18.25	31	28.5	19	51.23	37	5.5	18
Juni 9	42.58	40	56.9	22	15.30	40	22.9	22	18.56	31	26.6	20	51.60	35	7.3	21
19	42.98	38	59.1	26	15.70	37	25.1	25	18.87	28	24.6	20	51.95	33	9.4	25
29	43.36	34	61.7	29	16.07	34	27.6	29	19.15	27	22.6	19	52.28	31	11.9	28
Juli 9	43.70	29	64.6	32	16.41	29	30.5	31	19.42	24	20.7	17	52.59	27	14.7	29
19	43.99	24	67.8	34	16.70	25	33.6	33	19.66	21	19.0	16	52.86	23	17.6	30
29	44.23	18	71.2	34	16.95	18	36.9	34	19.87	17	17.4	15	53.09	18	20.6	31
Aug. 8	44.41	12	74.6	34	17.13	13	40.3	34	20.04	13	15.9	12	53.27	13	23.7	30
18	44.53	6	78.0	34	17.26	8	43.7	33	20.17	8	14.7	10	53.40	8	26.7	30
28	44.59	0	81.4	33	17.34	1	47.0	32	20.25	4	13.7	7	53.48	4	29.7	28
Sept. 7	44.59	6	84.7	30	17.35	4	50.2	31	20.29	1	13.0	6	53.52	2	32.5	26
17	44.53	11	87.7	28	17.31	9	53.3	28	20.30	4	12.4	3	53.50	5	35.1	24
27	44.42	16	90.5	26	17.22	14	56.1	25	20.26	7	12.1	1	53.45	10	37.5	21
Oct. 7	44.26	20	93.1	21	17.08	17	58.6	21	20.19	9	12.0	1	53.35	13	39.6	18
17	44.06	23	95.2	17	16.91	21	60.7	17	20.10	11	12.1	2	53.22	15	41.4	14
27	43.83	25	96.9	13	16.70	23	62.4	13	19.99	13	12.3	4	53.07	17	42.8	9
Nov. 6	43.58	27	98.2	8	16.47	25	63.7	8	19.86	13	12.7	5	52.90	19	43.7	6
16	43.31	27	99.0	2	16.22	25	64.5	3	19.73	13	13.2	6	52.71	19	44.3	1
26	43.04	27	99.2	2	15.97	26	64.8	2	19.60	12	13.8	7	52.52	19	44.4	3
Dec. 6	42.77	26	99.0	8	15.71	24	64.6	7	19.48	11	14.5	7	52.33	18	44.1	8
16	42.51	24	98.2	13	15.47	23	63.9	12	19.37	10	15.2	8	52.15	17	43.3	12
26	42.27	22	96.9	18	15.24	20	62.7	17	19.27	9	16.0	8	51.98	15	42.1	15
36	42.05		95.1		15.04		61.0		19.18		16.8		51.83		40.6	
Mittl. Ort	39.90		58.1		12.66		23.8		16.13		40.5		49.08		5.6	
	524)				319)				320)				526)			

1901	ζ Pegasi. $3^{m}.3$.				η Pegasi. $3^{m}.0$.				λ Pegasi. $4^{m}.0$.				ι Cephei. $3^{m}.4$.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. +		AR.		Decl. +	
	$22^h\ 36^m$		$10°\ 18'$		$22^h\ 38^m$		$29°\ 42'$		$22^h\ 41^m$		$23°\ 2'$		$22^h\ 46^m$		$65°\ 40'$	
Jan. 0	$31^s.74$	8	$61''.0$	11	$21^s.91$	11	$27''.1$	16	$46^s.01$	9	$53''.9$	14	$9^s.05$	38	$69''.6$	16
10	31.66	6	59.9	12	21.80	9	25.5	18	45.92	8	52.5	16	8.67	33	68.0	22
20	31.60	4	58.7	11	21.71	6	23.7	19	45.84	6	50.9	17	8.34	26	65.8	25
30	31.56	1	57.6	12	21.65	4	21.8	20	45.78	2	49.2	18	8.08	19	63.3	29
Febr. 9	31.55	— 2	56.4	10	21.61	— 1	19.8	21	45.76	— 1	47.4	17	7.89	11	60.4	30
19	31.57	6	55.4	10	21.62	5	17.7	21	45.77	4	45.7	17	7.78	1	57.4	34
März 1	[26] 31.63	9	54.4	6	[26] 21.67	8	15.6	17	[27] 45.81	8	44.0	13	[28] 7.77	— 9	54.0	30
11	31.72	12	53.8	3	21.75	13	13.9	14	45.89	12	42.7	11	7.86	20	51.0	28
21	31.84	16	53.5	1	21.88	17	12.5	11	46.01	16	41.6	7	8.06	28	48.2	25
31	32.00	19	53.4	— 3	22.05	21	11.4	6	46.17	20	40.9	4	8.34	37	45.7	21
April 10	32.19	23	53.7	6	22.26	25	10.8	3	46.37	24	40.5	0	8.71	44	43.6	16
20	32.42	25	54.3	9	22.51	28	10.5	— 2	46.61	26	40.5	5	9.15	51	42.0	11
30	32.67	28	55.2	13	22.79	30	10.7	7	46.87	29	41.0	8	9.66	56	40.9	5
Mai 10	32.95	29	56.5	15	23.09	32	11.4	11	47.16	31	41.8	12	10.22	59	40.4	— 1
20	33.24	31	58.0	18	23.41	34	12.5	15	47.47	32	43.0	16	10.81	60	40.5	7
30	33.55	31	59.8	19	23.75	34	14.0	18	47.79	33	44.6	19	11.41	60	41.2	12
Juni 9	33.86	31	61.7	22	24.09	33	15.8	22	48.12	32	46.5	22	12.01	58	42.4	17
19	34.17	29	63.9	22	24.42	31	18.0	25	48.44	30	48.7	23	12.59	54	44.1	23
29	34.46	27	66.1	21	24.73	29	20.5	26	48.74	29	51.0	25	13.13	50	46.4	27
Juli 9	34.73	24	68.2	22	25.02	26	23.1	27	49.03	25	53.5	26	13.63	44	49.1	30
19	34.97	21	70.4	21	25.28	22	25.8	28	49.28	22	56.1	26	14.07	36	52.1	32
29	35.18	17	72.5	20	25.50	18	28.6	28	49.50	18	58.7	25	14.43	29	55.3	35
Aug. 8	35.35	13	74.5	18	25.68	13	31.4	27	49.68	13	61.2	24	14.72	20	58.8	36
18	35.48	9	76.3	17	25.81	9	34.1	26	49.81	9	63.6	23	14.92	12	62.4	37
28	35.57	5	78.0	14	25.90	4	36.7	24	49.90	5	65.9	21	15.04	3	66.1	36
Sept. 7	35.62	0	79.4	11	25.94	0	39.1	22	49.95	1	68.0	19	15.07	— 5	69.7	35
17	35.62	3	80.5	9	25.94	4	41.3	20	49.96	— 3	69.9	16	15.02	12	73.2	34
27	35.59	6	81.4	7	25.90	8	43.3	17	49.93	7	71.5	14	14.90	20	76.6	31
Oct. 7	35.53	9	82.1	5	25.82	10	45.0	13	49.86	10	72.9	11	14.70	27	79.7	28
17	35.44	11	82.6	2	25.72	13	46.3	11	49.76	11	74.0	8	14.43	33	82.5	24
27	35.33	12	82.8	0	25.59	15	47.4	7	49.65	13	74.8	4	14.10	37	84.9	20
Nov. 6	35.21	13	82.8	2	25.44	16	48.1	3	49.52	15	75.2	2	13.73	41	86.9	15
16	35.08	13	82.6	5	25.28	16	48.4	0	49.37	14	75.4	— 2	13.32	43	88.4	9
26	34.95	13	82.1	6	25.12	16	48.4	4	49.23	15	75.2	5	12.89	45	89.3	3
Dec. 6	34.82	12	81.5	8	24.96	15	48.0	8	49.08	14	74.7	8	12.44	44	89.6	— 2
16	34.70	11	80.7	10	24.81	15	47.2	12	48.94	13	73.9	11	12.00	43	89.4	9
26	34.59	10	79.7	10	24.66	12	46.0	14	48.81	11	72.8	13	11.57	41	88.5	14
36	34.49		78.7		24.54		44.6		48.70		71.5		11.16		87.1	
Mittl. Ort	31.45		51.6		21.63		11.9		45.70		40.6		9.19		46.2	
	321)				322)				323)				325)			

1901	λ Aquarii. $4^m.0$.				δ Aquarii. $3^m.0$.				α Pisc. austr. $1^m.3$.				ο Andromed. $3^m.6$.			
	AR.		Decl. —		AR.		Decl. —		AR.		Decl. —		AR.		Decl. +	
	$22^h\ 47^m$		8° 5′		$22^h\ 49^m$		16° 20′		$22^h\ 52^m$		30° 8′		$22^h\ 57^m$		41° 47′	
Jan. 0	27.25	8	80.2	4	24.03	8	49.6	2	10.97	10	53.0	4	22.24	16	56.5	16
10	27.17	6	80.6	4	23.95	7	49.8	0	10.87	8	52.6	6	22.08	15	54.9	19
20	27.11	4	81.0	2	23.88	4	49.8	2	10.79	5	52.0	9	21.93	11	53.0	22
30	27.07	1	81.2	1	23.84	1	49.6	3	10.74	3	51.1	11	21.82	7	50.8	23
Febr. 9	27.06	— 1	81.3	0	23.83	— 1	49.3	6	10.71	— 1	50.0	14	21.75	4	48.5	24
19	27.07	5	81.3	3	23.84	4	48.7	8	10.72	4	48.6	16	21.71	— 2	46.1	24
März 1	27.12	8	81.0	5	23.88	9	47.9	11	10.76	9	47.0	20	21.73	7	43.7	25
11	[1] 27.20	11	80.5	8	[1] 23.97	11	46.8	12	[2] 10.85	12	45.0	20	[3] 21.80	11	41.2	21
21	27.31	15	79.7	9	24.08	15	45.6	14	10.97	16	43.0	21	21.91	17	39.1	17
31	27.46	18	78.8	12	24.23	18	44.2	16	11.13	19	40.9	22	22.08	21	37.4	13
April 10	27.64	22	77.6	14	24.41	22	42.6	18	11.32	23	38.7	23	22.29	26	36.1	8
20	27.86	24	76.2	16	24.63	24	40.8	18	11.55	27	36.4	23	22.55	30	35.3	4
30	28.10	27	74.6	18	24.87	27	39.0	20	11.82	29	34.1	22	22.85	34	34.9	— 1
Mai 10	28.37	29	72.8	18	25.14	30	37.0	19	12.11	32	31.9	21	23.19	36	35.0	6
20	28.66	31	71.0	19	25.44	31	35.1	20	12.43	33	29.8	20	23.55	37	35.6	11
30	28.97	31	69.1	20	25.75	32	33.1	19	12.76	34	27.8	18	23.92	38	36.7	16
Juni 9	29.28	31	67.1	19	26.07	32	31.2	18	13.10	35	26.0	16	24.30	37	38.3	19
19	29.59	29	65.2	18	26.39	30	29.4	16	13.45	33	24.4	12	24.67	36	40.2	24
29	29.88	28	63.4	17	26.69	29	27.8	14	13.78	31	23.2	10	25.03	33	42.6	26
Juli 9	30.16	26	61.7	15	26.98	27	26.4	12	14.09	29	22.2	6	25.36	30	45.2	28
19	30.42	22	60.2	13	27.25	23	25.2	9	14.38	26	21.6	3	25.66	26	48.0	30
29	30.64	19	58.9	11	27.48	19	24.3	7	14.64	21	21.3	— 1	25.92	22	51.0	31
Aug. 8	30.83	15	57.8	8	27.67	15	23.6	3	14.85	17	21.4	4	26.14	16	54.1	31
18	30.98	10	57.0	6	27.82	11	23.3	1	15.02	12	21.8	7	26.30	12	57.2	31
28	31.08	6	56.4	3	27.93	6	23.2	— 1	15.14	7	22.5	9	26.42	6	60.3	29
Sept. 7	31.14	2	56.1	1	27.99	3	23.3	4	15.21	2	23.4	12	26.48	1	63.2	28
17	31.16	— 2	56.0	— 1	28.02	— 2	23.7	6	15.23	— 2	24.6	14	26.49	— 3	66.0	26
27	31.14	5	56.1	3	28.00	6	24.3	7	15.21	6	26.0	14	26.46	7	68.6	23
Oct. 7	31.09	8	56.4	5	27.94	8	25.0	9	15.15	10	27.4	14	26.39	11	70.9	21
17	31.01	10	56.9	5	27.86	11	25.9	8	15.05	12	28.8	14	26.28	14	73.0	16
27	30.91	12	57.4	7	27.75	12	26.7	9	14.93	14	30.2	13	26.14	16	74.6	13
Nov. 6	30.79	13	58.1	6	27.63	13	27.6	9	14.79	16	31.5	11	25.98	18	75.9	9
16	30.66	13	58.7	7	27.50	14	28.5	8	14.63	16	32.6	10	25.80	20	76.8	4
26	30.53	13	59.4	8	27.36	13	29.3	7	14.47	16	33.6	6	25.60	20	77.2	— 1
Dec. 6	30.40	12	60.2	6	27.23	13	30.0	6	14.31	15	34.2	4	25.40	19	77.1	5
16	30.28	10	60.8	6	27.10	11	30.6	4	14.16	13	34.6	1	25.21	19	76.6	9
26	30.18	9	61.4	5	26.99	9	31.0	3	14.03	12	34.7	— 2	25.02	18	75.7	14
36	30.09		61.9		26.90		31.3		13.91		34.5		24.84		74.3	
Mittl. Ort	26.96		83.7		23.78		50.6		10.83		50.0		21.85		37.8	
	326)				618)				619)				327)			

1901	β Pegasi. 2.2...2^m.7.				α Pegasi. 2^m.0.				c^2 Aquarii. 4^m.0.				π Cephei. 4^m.6.			
	AR.		Decl. +		AR.		Decl. +		AR.		Decl. −		AR.		Decl. +	
	22^h 58^m		27° 32′		22^h 59^m		14° 40′		23^h 4^m		21° 42′		23^h 4^m		74° 51′	
Jan. 0	58^s.84	11	58″.8	13	50^s.13	9	32″.0	12	10^s.42	10	36″.4	0	44^s.66	68	33″.0	13
10	58.73	10	57.5	16	50.04	8	30.8	12	10.32	8	36.4	2	43.98	62	31.7	19
20	58.63	8	55.9	18	49.96	6	29.6	13	10.24	6	36.2	4	43.36	52	29.8	23
30	58.55	4	54.1	19	49.90	3	28.3	13	10.18	3	35.8	7	42.84	40	27.5	27
Febr. 9	58.51	2	52.2	18	49.87	1	27.0	12	10.15	0	35.1	9	42.44	27	24.8	30
19	58.49	— 2	50.4	18	49.86	— 2	25.8	11	10.15	3	34.2	11	42.17	12	21.8	32
März 1	58.51	7	48.6	17	49.88	7	24.7	10	10.18	7	33.1	14	42.05	— 5	18.6	35
11	58.58	11	46.9	14	49.95	10	23.7	6	10.25	9	31.7	16	42.10	20	15.1	30
21	58.69	14	45.5	10	50.05	14	23.1	3	10.34	14	30.1	17	42.30	35	12.1	28
31	58.83	19	44.5	6	50.19	18	22.8	0	10.48	17	28.4	19	42.65	50	9.3	24
April 10	59.02	23	43.9	3	50.37	21	22.8	3	10.65	21	26.5	20	43.15	63	6.9	20
20	59.25	26	43.6	— 2	50.58	24	23.1	7	10.86	24	24.5	21	43.78	72	4.9	15
30	59.51	29	43.8	6	50.82	27	23.8	11	11.10	28	22.4	21	44.50	82	3.4	10
Mai 10	59.80	32	44.4	10	51.09	29	24.9	13	11.38	30	20.3	21	45.32	86	2.4	4
20	60.12	32	45.4	14	51.38	31	26.2	17	11.68	31	18.2	21	46.18	90	2.0	— 2
30	60.44	34	46.8	18	51.69	32	27.9	19	11.99	32	16.1	19	47.08	89	2.2	8
Juni 9	60.78	33	48.6	20	52.01	31	29.8	20	12.31	33	14.2	18	47.97	88	3.0	14
19	61.11	32	50.6	23	52.32	30	31.8	22	12.64	32	12.4	16	48.85	84	4.4	19
29	61.43	30	52.9	25	52.62	29	34.0	23	12.96	30	10.8	13	49.69	77	6.3	23
Juli 9	61.73	27	55.4	26	52.91	26	36.3	23	13.26	28	9.5	10	50.46	68	8.6	28
19	62.00	24	58.0	27	53.17	23	38.6	23	13.54	24	8.5	7	51.14	58	11.4	31
29	62.24	20	60.7	27	53.40	19	40.9	21	13.78	21	7.8	5	51.72	47	14.5	34
Aug. 8	62.44	15	63.4	26	53.59	15	43.0	21	13.99	17	7.3	1	52.19	35	17.9	36
18	62.59	11	66.0	25	53.74	11	45.1	19	14.16	13	7.2	— 2	52.54	23	21.5	37
28	62.70	7	68.5	23	53.85	7	47.0	16	14.29	8	7.4	5	52.77	9	25.2	37
Sept. 7	62.77	3	70.8	22	53.92	3	48.6	14	14.37	3	7.9	7	52.86	— 3	28.9	37
17	62.80	— 2	73.0	19	53.95	— 1	50.0	12	14.40	0	8.6	9	52.83	15	32.6	36
27	62.78	5	74.9	16	53.94	4	51.2	10	14.40	4	9.5	11	52.68	28	36.2	34
Oct. 7	62.73	8	76.5	14	53.90	7	52.2	7	14.36	8	10.6	11	52.40	38	39.6	32
17	62.65	11	77.9	10	53.83	9	52.9	4	14.28	10	11.7	11	52.02	48	42.8	28
27	62.54	13	78.9	8	53.74	11	53.3	2	14.18	12	12.8	11	51.54	58	45.6	24
Nov. 6	62.41	14	79.7	4	53.63	13	53.5	0	14.06	14	13.9	11	50.96	64	48.0	20
16	62.27	15	80.1	0	53.50	13	53.5	3	13.92	14	15.0	9	50.32	70	50.0	14
26	62.12	15	80.1	3	53.37	13	53.2	5	13.78	14	15.9	7	49.62	74	51.4	8
Dec. 6	61.97	14	79.8	7	53.24	12	52.7	7	13.64	13	16.6	6	48.88	75	52.2	2
16	61.83	14	79.1	9	53.12	12	52.0	9	13.51	13	17.2	4	48.13	75	52.4	— 4
26	61.69	13	78.2	13	53.00	11	51.1	11	13.38	11	17.6	2	47.38	72	52.0	10
36	61.56		76.9		52.89		50.0		13.27		17.8		46.66		51.0	
Mittl. Ort	58.41		44.1		49.70		21.3		10.14		35.4		44.85		8.0	
		328)				329)				620)				529)		

1901	Br. 3077. $6^m.0$. AR.		Decl. +		τ Pegasi. $4^m.6$. AR.		Decl. +		4 Cassiopej. $5^m.8$. AR.		Decl. +		κ Piscium. $5^m.3$. AR.		Decl. +	
	$23^h\ 8^m$		56° 37′		$23^h\ 15^m$		23° 11′		$23^h\ 20^m$		61° 44′		$23^h\ 21^m$		0° 42′	
Jan. 0	31.13	26	39.8	14	44.68	11	67.0	12	26.75	33	44.0	12	51.92	10	54.3	7
10	30.87	23	38.4	19	44.57	10	65.8	14	26.42	30	42.8	18	51.82	8	53.6	7
20	30.64	19	36.5	23	44.47	9	64.4	16	26.12	26	41.0	23	51.74	7	52.9	7
30	30.45	14	34.2	26	44.38	5	62.8	16	25.86	21	38.7	25	51.67	5	52.2	5
Febr. 9	30.31	9	31.6	28	44.33	3	61.2	16	25.65	14	36.2	28	51.62	2	51.7	4
19	30.22	3	28.8	28	44.30	0	59.6	15	25.51	7	33.4	29	51.60	1	51.3	3
März 1	30.19	6	26.0	31	44.30	5	58.1	15	25.44	2	30.5	32	51.61	5	51.0	0
11	^{6}30.25	12	22.9	26	^{8}44.35	9	56.6	11	^{10}25.46	10	27.3	28	^{10}51.66	7	51.0	2
21	30.37	20	20.3	23	44.44	13	55.5	8	25.56	19	24.5	26	51.73	11	51.2	4
31	30.57	27	18.0	20	44.57	16	54.7	5	25.75	27	21.9	22	51.84	15	51.6	8
April 10	30.84	33	16.0	15	44.73	21	54.2	1	26.02	35	19.7	18	51.99	19	52.4	10
20	31.17	38	14.5	10	44.94	24	54.1	2	26.37	41	17.9	13	52.18	23	53.4	12
30	31.55	43	13.5	5	45.18	28	54.3	7	26.78	46	16.6	7	52.41	25	54.6	15
Mai 10	31.98	46	13.0	1	45.46	30	55.0	10	27.24	51	15.9	2	52.66	27	56.1	17
20	32.44	48	13.1	6	45.76	31	56.0	15	27.75	53	15.7	3	52.93	30	57.8	18
30	32.92	49	13.7	12	46.07	33	57.5	17	28.28	54	16.0	9	53.23	30	59.6	19
Juni 9	33.41	48	14.9	17	46.40	33	59.2	19	28.82	53	16.9	15	53.53	31	61.5	20
19	33.89	46	16.6	21	46.73	32	61.1	22	29.35	52	18.4	19	53.84	31	63.5	21
29	34.35	43	18.7	25	47.05	30	63.3	24	29.87	49	20.3	24	54.15	29	65.6	19
Juli 9	34.78	39	21.2	29	47.35	27	65.7	24	30.36	44	22.7	27	54.44	27	67.5	19
19	35.17	34	24.1	31	47.62	25	68.1	25	30.80	39	25.4	30	54.71	24	69.4	17
29	35.51	28	27.2	33	47.87	21	70.6	25	31.19	32	28.4	33	54.95	21	71.1	16
Aug. 8	35.79	22	30.5	34	48.08	17	73.1	24	31.51	26	31.7	34	55.16	17	72.7	13
18	36.01	16	33.9	35	48.25	13	75.5	23	31.77	19	35.1	35	55.33	14	74.0	11
28	36.17	9	37.4	35	48.38	8	77.8	21	31.96	12	38.6	36	55.47	9	75.1	9
Sept. 7	36.26	3	40.9	33	48.46	5	79.9	19	32.08	4	42.2	35	55.56	5	76.0	6
17	36.29	4	44.2	32	48.51	0	81.8	17	32.12	3	45.7	34	55.61	2	76.6	4
27	36.25	9	47.4	30	48.51	3	83.5	15	32.09	9	49.1	31	55.63	2	77.0	2
Oct. 7	36.16	14	50.4	27	48.48	6	85.0	12	32.00	15	52.2	29	55.61	5	77.2	0
17	36.02	18	53.1	23	48.42	8	86.2	9	31.85	21	55.1	26	55.56	7	77.2	2
27	35.84	23	55.4	19	48.34	11	87.1	6	31.64	26	57.7	22	55.49	10	77.0	4
Nov. 6	35.61	26	57.3	14	48.23	12	87.7	3	31.38	30	59.9	17	55.39	10	76.6	5
16	35.35	27	58.7	10	48.11	14	88.0	0	31.08	32	61.6	13	55.29	12	76.1	6
26	35.08	29	59.7	4	47.97	13	88.0	3	30.76	35	62.9	7	55.17	12	75.5	6
Dec. 6	34.79	30	60.1	1	47.84	14	87.7	6	30.41	36	63.6	1	55.05	12	74.9	7
16	34.49	29	60.0	7	47.70	14	87.1	9	30.05	36	63.7	5	54.93	11	74.2	8
26	34.20	28	59.3	12	47.56	12	86.2	11	29.69	35	63.2	10	54.82	10	73.4	8
36	33.92		58.1		47.44		85.1		29.34		62.2		54.72		72.6	
Mittl. Ort	30.74		17.6		44.13		53.7		26.23		20.7		51.40		48.6	
	530)				531)				533)				534)			

1901	70 Pegasi. 5ᵐ.0. AR.		Decl. +		ι Andromedae. 4ᵐ.0. AR.		Decl. +		ι Piscium. 4ᵐ.3. AR.		Decl. +	
	23ʰ 24ᵐ		12° 12′		23ʰ 33ᵐ		42° 43′		23ʰ 34ᵐ		5° 5′	
Jan. 0	9.35	10	60.7	10	17.45	18	30.3	12	52.06	11	29.4	8
10	9.25	9	59.7	11	17.27	17	29.1	16	51.95	9	28.6	9
20	9.16	8	58.6	11	17.10	14	27.5	19	51.86	8	27.7	8
30	9.08	5	57.5	11	16.96	11	25.6	22	51.78	5	26.9	8
Febr. 9	9.03	3	56.4	10	16.85	8	23.4	22	51.73	4	26.1	6
19	9.00	0	55.4	10	16.77	4	21.2	24	51.69	0	25.5	5
März 1	9.00	4	54.4	7	16.73	1	18.8	23	51.69	2	25.0	4
11	9.04	8	53.7	6	16.74	8	16.5	23	51.71	7	24.6	0
21	9.12	11	53.1	2	16.82	12	14.2	19	51.78	10	24.6	2
31	9.23	16	52.9	1	16.94	18	12.3	15	51.88	14	24.8	4
April 10	9.39	19	53.0	4	17.12	23	10.8	11	52.02	18	25.2	8
20	9.58	22	53.4	8	17.35	28	9.7	7	52.20	22	26.0	10
30	9.80	26	54.2	10	17.63	32	9.0	3	52.42	24	27.0	13
Mai 10	10.06	28	55.2	14	17.95	34	8.7	3	52.66	27	28.3	15
20	10.34	30	56.6	16	18.29	38	9.0	8	52.93	29	29.8	17
30	10.64	31	58.2	18	18.67	38	9.8	12	53.22	31	31.5	19
Juni 9	10.95	31	60.0	20	19.05	38	11.0	16	53.53	31	33.4	20
19	11.26	31	62.0	21	19.43	38	12.6	20	53.84	31	35.4	21
29	11.57	30	64.1	22	19.81	36	14.6	24	54.15	30	37.5	20
Juli 9	11.87	27	66.3	22	20.17	34	17.0	26	54.45	28	39.5	20
19	12.14	25	68.5	22	20.51	30	19.6	28	54.73	25	41.5	19
29	12.39	21	70.7	20	20.81	26	22.4	29	54.98	21	43.4	17
Aug. 8	12.60	17	72.7	19	21.07	21	25.3	30	55.19	19	45.1	15
18	12.77	14	74.6	17	21.28	16	28.3	31	55.38	14	46.6	14
28	12.91	9	76.3	16	21.44	11	31.4	29	55.52	11	48.0	11
Sept. 7	13.00	6	77.9	13	21.55	7	34.3	29	55.63	7	49.1	9
17	13.06	1	79.2	11	21.62	2	37.2	27	55.70	3	50.0	6
27	13.07	1	80.3	8	21.64	3	39.9	25	55.73	1	50.6	4
Oct. 7	13.06	5	81.1	6	21.61	6	42.4	22	55.72	4	51.0	2
17	13.01	8	81.7	4	21.55	10	44.6	19	55.68	6	51.2	1
27	12.93	9	82.1	1	21.45	13	46.5	15	55.62	8	51.3	2
Nov. 6	12.84	11	82.2	0	21.32	15	48.0	12	55.54	10	51.1	3
16	12.73	11	82.2	3	21.17	18	49.2	7	55.44	11	50.8	5
26	12.62	13	81.9	5	20.99	19	49.9	3	55.33	11	50.3	7
Dec. 6	12.49	12	81.4	7	20.80	19	50.2	1	55.22	12	49.6	7
16	12.37	12	80.7	8	20.61	19	50.1	6	55.10	12	48.9	7
26	12.25	11	79.9	9	20.42	19	49.5	10	54.98	11	48.2	9
36	12.14		79.0		20.23		48.5		54.87		47.3	
Mittl. Ort	8.77		51.0		16.73		11.3		51.44		22.4	
	535)				332)				333)			

1901	γ Cephei. $3^m.3$.				ω^2 Aquarii. $4^m.6$.				41 H. Cephei. $5^m.6$.			
	AR.		Decl. +		AR.		Decl. —		AR.		Decl. +	
	$23^h\ 35^m$	Δ	$77°\ 4'$	Δ	$23^h\ 37^m$	Δ	$15°\ 5'$	Δ	$23^h\ 43^m$	Δ	$67°\ 15'$	Δ
Jan. 0	$17^s.45$	84	$72''.1$	10	$35^s.83$	11	$32''.4$	3	$11^s.10$	45	$48''.4$	9
10	16.61	79	71.1	15	35.72	10	32.7	2	10.65	42	47.5	15
20	15.82	70	69.6	21	35.62	8	32.9	—1	10.23	37	46.0	20
30	15.12	58	67.5	26	35.54	6	32.8	2	9.86	32	44.0	23
Febr. 9	14.54	44	64.9	29	35.48	3	32.6	5	9.54	24	41.7	27
19	14.10	27	62.0	31	35.45	1	32.1	7	9.30	15	39.0	30
März 1	13.83	10	58.9	32	35.44	—2	31.4	9	9.15	5	36.0	30
11	13.73	—11	55.7	34	35.46	7	30.5	13	9.10	—6	33.0	32
21	14 13.84	28	52.3	30	14 35.53	10	29.2	14	16 9.16	17	29.8	28
31	14.12	46	49.3	27	35.63	13	27.8	15	9.33	27	27.0	25
April 10	14.58	62	46.6	23	35.76	17	26.3	18	9.60	37	24.5	21
20	15.20	76	44.3	18	35.93	22	24.5	20	9.97	46	22.4	17
30	15.96	88	42.5	13	36.15	24	22.5	20	10.43	53	20.7	12
Mai 10	16.84	96	41.2	7	36.39	27	20.5	21	10.96	58	19.5	6
20	17.80	102	40.5	1	36.66	29	18.4	21	11.54	62	18.9	1
30	18.82	105	40.4	—5	36.95	31	16.3	21	12.16	64	18.8	—5
Juni 9	19.87	104	40.9	11	37.26	32	14.2	19	12.80	65	19.3	10
19	20.91	101	42.0	16	37.58	31	12.3	18	13.45	64	20.3	15
29	21.92	95	43.6	21	37.89	31	10.5	17	14.09	60	21.8	21
Juli 9	22.87	87	45.7	26	38.20	29	8.8	15	14.69	56	23.9	25
19	23.74	77	48.3	29	38.49	26	7.3	11	15.25	50	26.4	28
29	24.51	66	51.2	33	38.75	23	6.2	9	15.75	43	29.2	31
Aug. 8	25.17	53	54.5	35	38.98	19	5.3	5	16.18	36	32.3	33
18	25.70	40	58.0	37	39.17	15	4.8	2	16.54	28	35.6	35
28	26.10	25	61.7	38	39.32	12	4.6	0	16.82	19	39.1	36
Sept. 7	26.35	10	65.5	38	39.44	6	4.6	3	17.01	10	42.7	36
17	26.45	—4	69.3	38	39.50	3	4.9	5	17.11	2	46.3	36
27	26.41	19	73.1	36	39.53	0	5.4	8	17.13	—6	49.9	34
Oct. 7	26.22	33	76.7	33	39.53	4	6.2	9	17.07	14	53.3	32
17	25.89	45	80.0	31	39.49	7	7.1	10	16.93	22	56.5	29
27	25.44	56	83.1	28	39.42	9	8.1	10	16.71	28	59.4	26
Nov. 6	24.88	67	85.9	23	39.33	11	9.1	10	16.43	34	62.0	21
16	24.21	76	88.2	17	39.22	12	10.1	10	16.09	39	64.1	17
26	23.45	83	89.9	12	39.10	12	11.1	9	15.70	43	65.8	11
Dec. 6	22.62	87	91.1	5	38.98	12	12.0	8	15.27	45	66.9	5
16	21.75	88	91.6	0	38.86	13	12.8	6	14.82	46	67.4	0
26	20.87	88	91.6	7	38.73	12	13.4	5	14.36	46	67.4	7
36	19.99		90.9		38.61		13.9		13.90		66.7	
Mittl. Ort	16.80		46.6		35.31		32.5		10.21		24.1	
	334)				621)				537)			

1901	Lac. δ Sculptoris. 4ᵐ.4. AR.	Diff.	Decl. −	Diff.	φ Pegasi. 5ᵐ.6. AR.	Diff.	Decl. +	Diff.	ω Piscium. 4ᵐ.0. AR.	Diff.	Decl. +	Diff.
	23ʰ 43ᵐ		28° 40′		23ʰ 47ᵐ		18° 34′		23ʰ 54ᵐ		6° 18′	
Jan. 0	46.53	14	44.4	0	27.72	12	24.6	10	14.32	11	62.0	9
10	46.39	12	44.4	3	27.60	11	23.6	11	14.21	10	61.1	8
20	46.27	10	44.1	6	27.49	9	22.5	13	14.11	9	60.3	8
30	46.17	7	43.5	10	27.40	8	21.2	13	14.02	7	59.5	8
Febr. 9	46.10	5	42.5	12	27.32	5	19.9	13	13.95	5	58.7	7
19	46.05	2	41.3	15	27.27	3	18.6	12	13.90	3	58.0	5
März 1	46.03	1	39.8	17	27.24	1	17.4	11	13.87	1	57.5	4
11	46.04	6	38.1	21	27.25	6	16.3	9	13.88	5	57.1	2
21	[16] 46.10	9	36.0	22	[17] 27.31	9	15.4	6	[19] 13.93	8	56.9	1
31	46.19	14	33.8	23	27.40	13	14.8	4	14.01	12	57.0	4
April 10	46.33	17	31.5	23	27.53	18	14.4	0	14.13	16	57.4	7
20	46.50	22	29.2	25	27.71	21	14.4	4	14.29	20	58.1	9
30	46.72	25	26.7	25	27.92	25	14.8	7	14.49	23	59.0	12
Mai 10	46.97	28	24.2	24	28.17	27	15.5	10	14.72	27	60.2	15
20	47.25	31	21.8	23	28.44	30	16.5	14	14.99	28	61.7	16
30	47.56	33	19.5	21	28.74	32	17.9	16	15.27	30	63.3	19
Juni 9	47.89	33	17.4	19	29.06	32	19.5	19	15.57	31	65.2	20
19	48.22	34	15.5	16	29.38	32	21.4	20	15.88	31	67.2	20
29	48.56	33	13.9	14	29.70	31	23.4	22	16.19	31	69.2	20
Juli 9	48.89	31	12.5	10	30.01	29	25.6	23	16.50	28	71.2	20
19	49.20	29	11.5	7	30.30	27	27.9	22	16.78	26	73.2	19
29	49.49	25	10.8	2	30.57	23	30.1	23	17.04	24	75.1	18
Aug. 8	49.74	21	10.6	1	30.80	19	32.4	21	17.28	20	76.9	17
18	49.95	17	10.7	5	30.99	16	34.5	20	17.48	16	78.6	14
28	50.12	12	11.2	8	31.15	12	36.5	19	17.64	12	80.0	11
Sept. 7	50.24	8	12.0	11	31.27	8	38.4	16	17.76	9	81.1	10
17	50.32	4	13.1	13	31.35	4	40.0	15	17.85	5	82.1	8
27	50.36	1	14.4	15	31.39	1	41.5	13	17.90	1	82.9	5
Oct. 7	50.35	4	15.9	15	31.40	3	42.8	10	17.91	2	83.4	2
17	50.31	8	17.4	16	31.37	5	43.8	7	17.89	4	83.6	1
27	50.23	11	19.0	16	31.32	8	44.5	5	17.85	7	83.7	1
Nov. 6	50.12	12	20.6	14	31.24	9	45.0	2	17.78	8	83.6	3
16	50.00	14	22.0	13	31.15	11	45.2	0	17.70	10	83.3	4
26	49.86	15	23.3	10	31.04	12	45.2	3	17.60	11	82.9	5
Dec. 6	49.71	15	24.3	8	30.92	13	44.9	5	17.49	12	82.4	7
16	49.56	15	25.1	5	30.79	13	44.4	7	17.37	12	81.7	8
26	49.41	14	25.6	1	30.66	12	43.7	9	17.25	11	80.9	8
36	49.27		25.7		30.54		42.8		17.14		80.1	
Mittl. Ort	46.10		40.2		26.97		13.1		13.59		54.8	
	622)				538)				336)			

für die 172 Sterne des Jahrbuchsverzeichnisses, von denen nur mittl. Oerter gegeben sind.

Nr. des Fund.-Kat.	log. a	log. b	log. c	log. d	log. a'	log. b'	log. c'	log. d'
337	0.4918	8.8317	8.9783	7.3320	1.3020	8.3536_n	9.4592	9.8533
338	0.5222	9.4398	9.4521	8.1174	1.3017	8.6647_n	8.7565	9.9872
5	0.5285	9.1022	9.1547	8.2338	1.2990	9.0760_n	8.9804	9.9444
8	0.5023	8.5590	8.8766	8.0422	1.2975	9.1610_n	9.4921	9.6778
12	0.5393	9.0085	9.0835	8.3629	1.2944	9.2717_n	8.8871	9.9173
342	0.4919	7.9081	8.8193	8.1033	1.2942	9.2761_n	9.6099	9.0809
343	0.5560	9.1219	9.1692	8.4650	1.2938	9.2874_n	8.2638	9.9443
345	0.6978	9.5242	9.5320	8.9876	1.2852	9.4385_n	9.2739_n	9.9752
541	0.4777	8.0837_n	8.8146	8.2692	1.2852	9.4377_n	9.6786	9.2520_n
17	0.5170	8.5594	8.8661	8.3391	1.2838	9.4547_n	9.3743	9.6748
346	0.6200	9.1828	9.2168	8.7715	1.2759	9.5284_n	9.1673_n	9.9397
349	0.4942	7.7252	8.7861	8.4360	1.2627	9.6104_n	9.5986	8.8996
28	0.5158	8.3059	8.7975	8.5051	1.2520	9.6574_n	9.4219	9.4581
351	0.5943	8.8390	8.9510	8.7425	1.2317	9.7212_n	9.1184_n	9.8177
352	0.5503	8.5672	8.8266	8.6367	1.2265	9.7345_n	8.8037	9.6649
354	0.5226	8.2945	8.7723	8.5874	1.2249	9.7379_n	9.3561	9.4451
36	0.6889	9.1073	9.1434	8.9923	1.2143	9.7610_n	9.5574_n	9.8761
356	0.7074	9.0947	9.1294	9.0389	1.1923	9.7996_n	9.6182_n	9.8553
357	0.5454	8.4244	8.7631	8.6778	1.1901	9.8026_n	8.9754	9.5492
41	0.4934	7.4033	8.7116	8.6283	1.1893	9.8038_n	9.6043	8.5790
43	0.6379	8.8652	8.9493	8.8864	1.1808	9.8157_n	9.4673_n	9.7946
51	0.6210	8.7342	8.8549	8.8622	1.1479	9.8530_n	9.4095_n	9.7251
54	0.5110	7.8462	8.6337	8.7169	1.1062	9.8871_n	9.4803	9.0164
362	0.6243	8.6640	8.7953	8.8853	1.1019	9.8899_n	9.4492_n	9.6686
363	0.7135	8.8904	8.9408	9.0700	1.0776	9.9045_n	9.7134_n	9.7250
58	0.5743	8.3829	8.6591	8.8062	1.0658	9.9108_n	8.8011_n	9.4875
550	0.4592	7.8371_n	8.5934	8.7420	1.0647	9.9113_n	9.7559	9.0065_n
60	0.5508	8.2297	8.6237	8.7745	1.0635	9.9120_n	8.8284	9.3672
62	0.5514	8.2170	8.6119	8.7800	1.0517	9.9177_n	8.8053	9.3546
367	0.5899	8.3078	8.5566	8.8588	0.9518	9.9517_n	9.1656_n	9.4008
70	0.5318	7.9125	8.4887	8.7917	0.9511	9.9519_n	9.2570	9.0727
368	0.6754	8.5663	8.6600	9.0124	0.9106	9.9609_n	9.6808_n	9.5149
75	0.4767	7.1335_n	8.3559	8.7981	0.8334	9.9734_n	9.6896	8.3088_n
77	0.5043	7.3043	8.3277	8.8028	0.8040	9.9769_n	9.5341	8.4784
82	0.6219	8.2052	8.3890	8.9282	0.7455	9.9826_n	9.4795_n	9.2597
85	0.4579	7.3982_n	8.2096	8.8163	0.6828	9.9871_n	9.7623	8.5692_n
88	0.4644	7.2207_n	8.1379	8.8178	0.6129	9.9907_n	9.7396	8.3936_n
89	0.4794	6.7070_n	8.0693	8.8175	0.5472	9.9932_n	9.6777	7.8826_n
555	0.4100	7.5988_n	8.0476	8.8479	0.4964	9.9946_n	9.8790	8.7454_n
376	0.5176	7.1683	7.9542	8.8259	0.4266	9.9961_n	9.4244	8.3385
94	0.4693	6.9136_n	7.9356	8.8223	0.4120	9.9964_n	9.7211	8.0878_n
95	0.4692	6.9141_n	7.9340	8.8223	0.4103	9.9964_n	9.7215	8.0885_n
99	0.4787	6.5482_n	7.8820	8.8215	0.3598	9.9972_n	9.6807	7.7237_n

für die 172 Sterne des Jahrbuchsverzeichnisses, von denen nur mittl. Oerter gegeben sind.

Nr. des Fund.-Kat.	log. a	log. b	log. c	log. d	log. a'	log. b'	log. c'	log. d'
557	0.4017	7.3736_n	7.7913	8.8566	0.2352	9.9984_n	9.8931	8.5155_n
378	0.5438	7.2304	7.7477	8.8436	0.2049	9.9986_n	9.0429	8.3853
101	0.6188	7.5609	7.7604	8.9332	0.1285	9.9990_n	9.4668_n	8.6263
559	0.4088	7.1573_n	7.6052	8.8528	0.0539	9.9993_n	9.8815	8.3040_n
560	0.4370	6.7752_n	7.3859	8.8371	9.8507	9.9997_n	9.8232	7.9379_n
380	0.5011	4.7324	5.8768	8.8251	8.3541	0.0000_n	9.5564	5.9243
381	0.7809	7.2659_n	7.3096_n	9.2101	9.4014_n	0.0000_n	9.8653_n	8.0592_n
384	0.7242	7.7227_n	7.7894_n	9.1122	9.9789_n	9.9995_n	9.8018_n	8.6099_n
390	0.6365	8.0392_n	8.2000_n	8.9581	0.5376_n	9.9935_n	9.5641_n	9.0746_n
391	0.8126	8.5108_n	8.5408_n	9.2620	0.5732_n	9.9923_n	9.8817_n	9.2412_n
393	0.9443	8.7604_n	8.7715_n	9.4666	0.5984_n	9.9914_n	9.9338_n	9.2851_n
396	0.6213	8.2490_n	8.4315_n	8.9253	0.7872_n	9.9787_n	9.4746_n	9.3025_n
402	0.6423	8.5220_n	8.6522_n	8.9473	0.9573_n	9.9504_n	9.5679_n	9.5250_n
403	0.7128	8.7491_n	8.8090_n	9.0777	0.9782_n	9.9447_n	9.7435_n	9.6161_n
410	0.8314	9.1470_n	9.1642_n	9.2843	1.0835_n	9.9014_n	9.8102_n	9.7640_n
411	0.6507	8.7369_n	8.8343_n	8.9417	1.0914_n	9.8966_n	9.5673_n	9.6920_n
128	0.5043	7.7107_n	8.6385_n	8.7088	1.1137_n	9.8818_n	9.5326	8.8837_n
412	0.5644	8.4278_n	8.7166_n	8.7613	1.1280_n	9.8707_n	7.9961_n	9.5373_n
413	0.7386	9.0549_n	9.0877_n	9.1118	1.1392_n	9.8613_n	9.7087_n	9.8042_n
414	0.6459	8.8167_n	8.9051_n	8.9173	1.1455_n	9.8555_n	9.5240_n	9.7548_n
416	0.5960	8.6660_n	8.8273_n	8.7993	1.1651_n	9.8352_n	9.1987_n	9.7017_n
135	0.5740	8.5767_n	8.7951_n	8.7468	1.1744_n	9.8240_n	8.7631_n	9.6539_n
420	0.7179	9.1604_n	9.1883_n	9.0583	1.2070_n	9.7749_n	9.6107_n	9.8770_n
141	0.5073	7.9929_n	8.7388_n	8.6005	1.2100_n	9.7695_n	9.5067	9.1619_n
144	0.5362	8.4436_n	8.7945_n	8.6107	1.2247_n	9.7387_n	9.1588	9.5716_n
422	0.5684	8.6991_n	8.8776_n	8.6750	1.2302_n	9.7254_n	8.4387_n	9.7495_n
425	0.8897	9.6951_n	9.6983_n	9.3717	1.2585_n	9.6299_n	9.5693_n	9.9532_n
151	0.5002	8.0257_n	8.7940_n	8.4239	1.2658_n	9.5936_n	9.5570	9.1954_n
428	0.5898	8.9859_n	9.0594_n	8.6832	1.2668_n	9.5883_n	8.9764_n	9.8912_n
429	0.6396	9.2235_n	9.2517_n	8.8358	1.2723_n	9.5533_n	9.2664_n	9.9420_n
430	0.5156	8.4381_n	8.8338_n	8.4064	1.2737_n	9.5442_n	9.4090	9.5759_n
577	0.4701	8.2482	8.8165_n	8.3490	1.2783_n	9.5085_n	9.7031	9.4078
152	0.5264	8.6432_n	8.8873_n	8.4005	1.2802_n	9.4914_n	9.2548	9.7340_n
433	0.6954	9.4883_n	9.4975_n	8.9825	1.2827_n	9.4656_n	9.2971_n	9.9715_n
435	0.5328	8.8904_n	9.0060_n	8.3417	1.2922_n	9.3256_n	9.0665	9.8744_n
158	0.5110	8.6119_n	8.8867_n	8.2056	1.2929_n	9.3098_n	9.4135	9.7161_n
161	0.4941	8.1085_n	8.8250_n	8.0849	1.2951_n	9.2528_n	9.5927	9.2764_n
580	0.4773	8.3063	8.8370_n	8.0840	1.2955_n	9.2403_n	9.6683	9.4627
437	0.5141	8.7995_n	8.9599_n	8.1451	1.2971_n	9.1801_n	9.3200	9.8345_n
440	0.4867	9.4767_n	9.4872_n	6.4771_n	1.3022_n	6.9956	8.9781	9.9895_n
583	0.4902	8.3085	8.8428_n	7.5129_n	1.3017_n	8.6695	9.6034	9.4652
441	0.4794	8.7658_n	8.9470_n	7.6351_n	1.3016_n	8.6875	9.5544	9.8183_n
442	0.4730	8.7393_n	8.9351_n	7.8980_n	1.3003_n	8.9608	9.5941	9.8023_n

BESSEL'S CONSTANTEN

für die 172 Sterne des Jahrbuchsverzeichnisses, von denen nur mittl. Oerter gegeben sind.

Nr. des Fund.-Kat.	log. a	log. b	log. c	log. d	log. a'	log. b'	log. c'	log. d'
444	0.4515	9.0416_n	9.1087_n	8.1540_n	1.2995_n	9.0426	9.5028	9.9302_n
172	0.4880	7.0178	8.8184_n	8.0259_n	1.2966_n	9.2020	9.6347	8.1936
450	0.4420	8.7147_n	8.9156_n	8.3837_n	1.2841_n	9.4502	9.7114	9.7811_n
451	0.4325	8.7420_n	8.9243_n	8.4430_n	1.2797_n	9.4963	9.7268	9.7952_n
455	0.1594	9.2674_n	9.2897_n	8.9322_n	1.2639_n	9.6042	9.7140	9.9393_n
456	0.2437	9.1089_n	9.1508_n	8.8605_n	1.2515_n	9.6590	9.7753	9.9074_n
189	0.3309	8.8512_n	8.9556_n	8.7709_n	1.2250_n	9.7380	9.8439	9.8183_n
191	0.4910	7.2265	8.7333_n	8.5909_n	1.2113_n	9.7669	9.6185	8.4024
460	0.2130	8.9750_n	9.0346_n	8.9158_n	1.2031_n	9.7820	9.8693	9.8413_n
461	0.3503	8.7132_n	8.8650_n	8.7700_n	1.1940_n	9.7969	9.8746	9.7400_n
195	0.4564	8.1154_n	8.7272_n	8.6371_n	1.1920_n	9.7999	9.7596	9.2782_n
589	0.5210	8.1452	8.7160_n	8.6597_n	1.1779_n	9.8195	9.3812	9.3050
464	9.9798	9.0389_n	9.0771_n	9.0620_n	1.1591_n	9.8418	9.9087	9.8188_n
592	0.5335	8.2077	8.6860_n	8.7109_n	1.1389_n	9.8616	9.2238	9.3584
466	0.4744	7.6210_n	8.6549_n	8.6939_n	1.1313_n	9.8681	9.6991	8.7952_n
468	0.4444	8.0803_n	8.6460_n	8.7267_n	1.1075_n	9.8861	9.7970	9.2397_n
207	0.3322	8.5555_n	8.7364_n	8.8446_n	1.0909_n	9.8968	9.9274	9.6078_n
208	0.3839	8.4016_n	8.6811_n	8.7919_n	1.0892_n	9.8980	9.8946	9.5075_n
469	0.3321	8.5317_n	8.7177_n	8.8496_n	1.0759_n	9.9055	9.9312	9.5878_n
210	0.3541	8.4705_n	8.6914_n	8.8288_n	1.0723_n	9.9074	9.9204	9.5492_n
211	0.4025	8.2860_n	8.6349_n	8.7840_n	1.0646_n	9.9114	9.8769	9.4136_n
470	9.9539	8.8593_n	8.9098_n	9.0855_n	1.0465_n	9.9201	9.9723	9.6939_n
218	0.4390	8.0056_n	8.5656_n	8.7693_n	1.0267_n	9.9282	9.8132	9.1646_n
471	0.1575	8.6927_n	8.7792_n	8.9980_n	1.0158_n	9.9324	9.9777	9.6271_n
221	0.2767	8.5067_n	8.6558_n	8.9194_n	0.9821_n	9.9435	9.9679	9.5309_n
473	0.4416	7.8515_n	8.4600_n	8.7955_n	0.9246_n	9.9580	9.8089	9.0140_n
474	0.2515_n	9.0509_n	9.0640_n	9.3974_n	0.9264_n	9.9576	9.9935	9.6112_n
475	0.1161	8.6024_n	8.6866_n	9.0292_n	0.9188_n	9.9593	9.9982	9.5323_n
227	0.4808	7.0097_n	8.4253_n	8.7865_n	0.9033_n	9.9623	9.6709	8.1854_n
476	0.4173_n	9.0430_n	9.0533_n	9.4629_n	0.8619_n	9.9693	0.0013	9.5495_n
231	0.3613	8.1627_n	8.4410_n	8.8658_n	0.8487_n	9.9713	9.9354	9.2681_n
479	0.4436	7.5903_n	8.2423_n	8.8203_n	0.7095_n	9.9854	9.8050	8.7554_n
480	0.2920	8.1372_n	8.3233_n	8.9310_n	0.6817_n	9.9872	9.9830	9.1933_n
481	0.2010	8.0678_n	8.1943_n	8.9960_n	0.4951_n	9.9947	0.0113	9.0664_n
242	0.0652	8.0952_n	8.1805_n	9.0644_n	0.4146_n	9.9963	0.0261	9.0271_n
243	0.0655	8.0937_n	8.1791_n	9.0643_n	0.4133_n	9.9964	0.0261	9.0258_n
482	9.3889_n	8.3022_n	8.3344_n	9.2509_n	0.3825_n	9.9968	0.0346	9.0481_n
247	0.4784	6.3763_n	7.6962_n	8.8232_n	0.1738_n	9.9988	9.6822	7.5519_n
251	0.3663	6.9958_n	7.3071_n	8.8830_n	9.7260_n	9.9998	9.9380	8.1130_n
486	0.2708	7.5190	7.6925	8.9530_n	0.0409	9.9993	9.9963	8.5653
487	9.4652	7.9070	7.9520	9.1870_n	0.0064	9.9993	0.0365	8.7192
489	9.9318_n	8.2791	8.3027	9.3156_n	0.2872	9.9980	0.0342	8.9615
490	0.4585_n	8.6536	8.6640	9.4825_n	0.4786	9.9951	0.0250	9.1660

für die 172 Sterne des Jahrbuchsverzeichnisses, von denen nur mittl. Oerter gegeben sind.

Nr des Fund.-Kat.	log. *a*	log. *b*	log. *c*	log. *d*	log. *a'*	log. *b'*	log. *c'*	log. *d'*
491	9.2760	8.3564	8.3977	9.1992_n	0.4954	9.9946	0.0329	9.1519
261	0.2980	7.9920	8.1879	8.9299_n	0.5530	9.9930	9.9828	9.0551
262	0.2984	7.9914	8.1878	8.9295_n	0.5535	9.9930	9.9826	9.0550
267	0.4356	7.6269	8.2158	8.8261_n	0.6791	9.9873	9.8257	8.7882
493	9.8641_n	8.6718	8.6957	9.3020_n	0.6829	9.9871	0.0248	9.3568
494	0.3306	8.1232	8.3545	8.8986_n	0.7409	9.9830	9.9617	9.2075
497	0.5510_n	9.1240	9.1315	9.5267_n	0.8743	9.9674	9.9963	9.5647
499	0.3339	8.3316	8.5510	8.8788_n	0.9309	9.9566	9.9504	9.4094
281	0.4853	6.5970	8.4789	8.7744_n	0.9571	9.9505	9.6488	7.7727
500	0.1429	8.7327	8.8128	9.0040_n	1.0356	9.9247	9.9732	9.6534
606	0.5221	7.9173_n	8.5713	8.7582_n	1.0388	9.9233	9.3748	9.0826_n
608	0.5279	8.0008_n	8.5851	8.7585_n	1.0481	9.9192	9.3066	9.1616_n
609	0.5350	8.1064_n	8.6133	8.7551_n	1.0693	9.9091	9.2033	9.2604_n
503	0.4614	7.8533	8.6251	8.7233_n	1.0970	9.8930	9.7480	9.0231
295	0.4476	8.0488	8.6438	8.7245_n	1.1076	9.8860	9.7889	9.2104
296	0.4450	8.0874	8.6533	8.7215_n	1.1148	9.8810	9.7952	9.2468
505	0.1758	8.8297	8.9049	8.9700_n	1.1166	9.8796	9.9405	9.7393
509	0.4107_n	9.4196	9.4261	9.4560_n	1.1361	9.8640	9.8999	9.8276
301	0.3384	8.6536	8.8156	8.8105_n	1.1542	9.8469	9.9024	9.6901
511	0.1845	8.9215	8.9859	8.9506_n	1.1685	9.8312	9.9054	9.8020
305	0.3765	8.5798	8.7942	8.7531_n	1.1713	9.8280	9.8776	9.6547
513	0.3438	8.7338	8.8762	8.7776_n	1.1953	9.7947	9.8750	9.7509
613	0.5207	8.2183_n	8.7496	8.6163_n	1.2083	9.7729	9.3806	9.3747_n
515	0.2695	8.9199	8.9961	8.8578_n	1.2099	9.7695	9.8631	9.8316
310	0.4334	8.4100	8.7810	8.6255_n	1.2157	9.7581	9.8037	9.5425
516	9.9397	9.1973	9.2220	9.0655_n	1.2162	9.7573	9.8341	9.8893
614	0.5095	8.0597_n	8.7481	8.5885_n	1.2172	9.7553	9.4884	9.2265_n
519	0.4652	8.1082	8.7679	8.5455_n	1.2355	9.7109	9.7290	9.2737
312	0.4423	8.4299	8.8063	8.5571_n	1.2422	9.6909	9.7782	9.5639
313	0.4248	8.5740	8.8415	8.5816_n	1.2448	9.6826	9.7961	9.6752
523	0.4701	8.0946	8.7873	8.4724_n	1.2564	9.6393	9.7103	9.2615
318	0.3460	8.9886	9.0606	8.7015_n	1.2641	9.6028	9.7559	9.8899
525	0.1599	9.3103	9.3293	8.9285_n	1.2704	9.5674	9.6805	9.9491
527	0.3264	9.0875	9.1374	8.7265_n	1.2717	9.5586	9.7153	9.9196
528	0.4265	8.7404	8.9208	8.4839_n	1.2749	9.5358	9.7423	9.7924
617	0.5026	8.2004_n	8.8131	8.3479_n	1.2781	9.5107	9.5336	9.3630_n
324	0.4596	8.4506	8.8399	8.3693_n	1.2786	9.5059	9.7217	9.5870
330	0.4856	7.4944	8.8148	8.1419_n	1.2926	9.3177	9.6466	8.6701
532	0.4736	8.4422	8.8529	8.0944_n	1.2957	9.2349	9.6688	9.5829
536	0.4721	8.5949	8.8859	8.0192_n	1.2982	9.1293	9.6450	9.7050
331	0.4637	8.8348	8.9784	8.0561_n	1.2991	9.0746	9.5878	9.8532
335	0.4678	8.8030	8.9629	7.9930_n	1.2997	9.0275	9.5876	9.8376
539	0.4739	9.0101	9.0868	7.7508_n	1.3017	8.6636	9.4397	9.9229

Allgemeine Praecession = 50″.257

$$A = t - 0.02526 \sin 2 \odot + 0.00293 \sin(\odot + 81^\circ 56') - 0.34210 \sin \Omega + 0.00409 \sin 2\Omega$$
$$[A' = -0.00405 \sin 2 ☾ + 0.00134 \sin(☾ - 35^\circ 24')]$$

$$B = -0''.5519 \cos 2\odot - 0.0092 \cos(\odot + 281^\circ 14') - 9.2100 \cos \Omega + 0.0895 \cos 2\Omega$$
$$[B' = -0.0884 \cos 2 ☾]$$

$$C = -20''.47 \cos \odot \cos \varepsilon$$
$$D = -20''.47 \sin \odot$$
$$E = -0''.0031 \sin 2\odot - 0.0426 \sin \Omega + 0.0014 \sin 2\Omega$$

$$a = 46''.0853 + 20''.0467 \sin \alpha \operatorname{tg} \delta \qquad a' = 20''.0467 \cos \alpha$$
$$b = \cos \alpha \operatorname{tg} \delta \qquad b' = -\sin \alpha$$
$$c = \cos \alpha \sec \delta \qquad c' = \operatorname{tg} \varepsilon \cos \delta - \sin \alpha \sin \delta$$
$$d = \sin \alpha \sec \delta \qquad d' = \cos \alpha \sin \delta$$

$\odot$ = wahre Länge der Sonne
Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik
☾ = mittlere Länge des Mondes
m, m' = jährliche Eigen-Bewegung in AR. und Decl.
t = Zeit seit Anfang des Jahres, in Theilen des Jahres ausgedrückt.

$$\text{AR.app.} = \text{AR. } 1901.0 + tm + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$
$$\text{Decl.app.} = \text{Decl. } 1901.0 + tm' + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

Setzt man
$$f = 46''.0853\, A + E \qquad h \sin H = C$$
$$g \cos G = 20''.0467\, A \qquad h \cos H = D$$
$$g \sin G = B \qquad i = C \operatorname{tg} \varepsilon$$
$$[f' = 46''.0853\, A']$$
$$[g' \cos G' = 20''.0467\, A']$$
$$[g' \sin G' = B'],$$

so wird
$$\text{AR. app.} = \text{AR. } 1901.0 + tm + f + g \sin(G + \alpha) \operatorname{tg} \delta + h \sin(H + \alpha) \sec \delta + [f' + g' \sin(G' + \alpha) \operatorname{tg} \delta]$$
$$\text{Decl.app.} = \text{Decl. } 1901.0 + tm' + g \cos(G + \alpha) + h \cos(H + \alpha) \sin \delta + i \cos \delta + [g' \cos(G' + \alpha)]$$

Correction für die tägliche Aberration, wenn Θ die Sternzeit, φ die Polhöhe ist:

$$\Delta\alpha = +0^s.0214 \cos \varphi \cos(\Theta - \alpha) \sec \delta$$
$$\Delta\delta = +0''.321 \cos \varphi \sin(\Theta - \alpha) \sin \delta.$$

Constanten für die Sternzeit-Epochen

$18^h\ 40^m$ des Normal-Meridians oder $8^h\ 54^m$ Berlin,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

Datum in Mittl. Zeit			*t*	log. *A*	log. *B*	log. *C*	log. *D*	*E*
1901	Jan.	0.59	0.000	9.4885	0.7087	0.5118_n	1.3045	+0.04
		10.57	0.027	9.5340	0.7066	0.8104_n	1.2838	0.04
		20.54	0.055	9.5727	0.7000	0.9763_n	1.2474	0.04
		30.51	0.082	9.6052	0.6903	1.0855_n	1.1927	0.04
	Febr.	9.48	0.109	9.6323	0.6794	1.1612_n	1.1144	0.04
		19.46	0.137	9.6548	0.6695	1.2138_n	1.0022	+0.04
	März	1.43	0.164	9.6737	0.6626	1.2483_n	0.8319	0.04
		11.40	0.191	9.6901	0.6605	1.2678_n	0.5241	0.04
		21.37	0.218	9.7050	0.6644	1.2737_n	9.2724_n	0.04
		31.35	0.246	9.7193	0.6742	1.2665_n	0.5673_n	0.04
	April	10.32	0.273	9.7340	0.6892	1.2461_n	0.8493_n	+0.04
		20.29	0.300	9.7497	0.7077	1.2114_n	1.0095_n	0.03
		30.27	0.328	9.7665	0.7279	1.1601_n	1.1161_n	0.03
	Mai	10.24	0.355	9.7847	0.7481	1.0879_n	1.1910_n	0.03
		20.21	0.382	9.8040	0.7665	0.9865_n	1.2438_n	0.03
		30.18	0.410	9.8241	0.7822	0.8378_n	1.2798_n	+0.03
	Juni	9.16	0.437	9.8444	0.7941	0.5900_n	1.3016_n	0.03
		19.13	0.464	9.8644	0.8019	9.9014_n	1.3107_n	0.03
		29.10	0.491	9.8837	0.8055	0.3644	1.3078_n	0.04
	Juli	9.07	0.519	9.9017	0.8051	0.7292	1.2927_n	0.04
		19.05	0.546	9.9182	0.8013	0.9170	1.2644_n	+0.04
		29.02	0.573	9.9331	0.7948	1.0390	1.2211_n	0.04
	Aug.	7.99	0.601	9.9461	0.7867	1.1245	1.1593_n	0.04
		17.97	0.628	9.9575	0.7785	1.1857	1.0724_n	0.04
		27.94	0.655	9.9673	0.7715	1.2287	0.9472_n	0.04
	Sept.	6.91	0.683	9.9759	0.7673	1.2566	0.7507_n	+0.03
		16.88	0.710	9.9837	0.7668	1.2711	0.3489_n	0.03
		26.86	0.737	9.9910	0.7709	1.2729	0.0966	0.03
	Oct.	6.83	0.765	9.9984	0.7795	1.2618	0.6734	0.03
		16.80	0.792	0.0063	0.7920	1.2371	0.9064	0.03
		26.77	0.819	0.0149	0.8072	1.1967	1.0486	+0.03
	Nov.	5.75	0.846	0.0246	0.8236	1.1371	1.1457	0.03
		15.72	0.874	0.0352	0.8397	1.0518	1.2142	0.03
		25.69	0.901	0.0468	0.8541	0.9276	1.2618	0.03
	Dec.	5.66	0.928	0.0590	0.8656	0.7316	1.2924	0.03
		15.64	0.956	0.0716	0.8735	0.3302	1.3083	+0.03
		25.61	0.983	0.0840	0.8774	0.0737_n	1.3103	0.03
		35.58	1.010	0.0960	0.8773	0.6507_n	1.2984	0.03

Constanten für die mittleren Tage 1901,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Jan. 0	+14.22″	0.9037	39° 39′	1.3101	350° 56′	0.1450_n	127
1	14.38	0.9066	39 20	1.3099	350 0	0.1872_n	164
2	14.54	0.9095	39 1	1.3096	349 3	0.2255_n	200
3	14.70	0.9124	38 43	1.3094	348 7	0.2606_n	237
4	14.86	0.9152	38 24	1.3091	347 10	0.2930_n	274
5	+15.02	0.9180	38 6	1.3088	346 13	0.3230_n	310
6	15.17	0.9207	37 48	1.3085	345 17	0.3509_n	347
7	15.33	0.9234	37 30	1.3081	344 20	0.3770_n	383
8	15.48	0.9261	37 12	1.3078	343 23	0.4015_n	420
9	15.64	0.9287	36 54	1.3074	342 26	0.4245_n	457
10	+15.79	0.9313	36 36	1.3070	341 29	0.4463_n	493
11	15.94	0.9338	36 19	1.3066	340 31	0.4669_n	530
12	16.09	0.9363	36 1	1.3062	339 34	0.4864_n	566
13	16.24	0.9388	35 44	1.3057	338 37	0.5049_n	603
14	16.39	0.9412	35 27	1.3053	337 39	0.5226_n	640
15	+16.54	0.9436	35 10	1.3048	336 42	0.5394_n	676
16	16.69	0.9460	34 53	1.3043	335 44	0.5555_n	713
17	16.83	0.9483	34 36	1.3038	334 46	0.5708_n	749
18	16.98	0.9506	34 19	1.3033	333 48	0.5855_n	786
19	17.12	0.9528	34 3	1.3027	332 50	0.5996_n	823
20	+17.26	0.9550	33 47	1.3022	331 52	0.6131_n	859
21	17.40	0.9572	33 31	1.3016	330 53	0.6261_n	896
22	17.54	0.9593	33 15	1.3011	329 55	0.6385_n	932
23	17.68	0.9614	32 59	1.3005	328 56	0.6505_n	969
24	17.82	0.9635	32 44	1.2999	327 57	0.6620_n	006
25	+17.95	0.9656	32 29	1.2993	326 58	0.6731_n	042
26	18.09	0.9676	32 14	1.2987	325 59	0.6838_n	079
27	18.22	0.9696	31 59	1.2981	324 59	0.6940_n	115
28	18.35	0.9716	31 44	1.2974	324 0	0.7039_n	152
29	18.48	0.9735	31 30	1.2968	323 0	0.7135_n	189
30	+18.61	0.9754	31 15	1.2962	322 1	0.7227_n	225
31	18.74	0.9773	31 1	1.2955	321 1	0.7316_n	262
Febr. 1	18.87	0.9791	30 47	1.2948	320 1	0.7402_n	298
2	18.99	0.9809	30 33	1.2942	319 0	0.7484_n	335
3	19.11	0.9827	30 20	1.2936	318 0	0.7563_n	372
4	+19.23	0.9845	30 7	1.2929	316 59	0.7640_n	408
5	19.35	0.9862	29 54	1.2922	315 58	0.7714_n	445
6	19.47	0.9879	29 41	1.2916	314 57	0.7786_n	481

Constanten für die mittleren Tage 1901,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12ʰ Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Febr. 6	+19.47	0.9879	29 41	1.2916	314 57	0.7786_n	481
7	19.59	0.9896	29 28	1.2909	313 56	0.7855_n	518
8	19.70	0.9913	29 16	1.2902	312 55	0.7922_n	555
9	19.81	0.9929	29 4	1.2896	311 54	0.7986_n	591
10	19.92	0.9945	28 52	1.2889	310 52	0.8048_n	628
11	+20.03	0.9961	28 40	1.2882	309 50	0.8108_n	664
12	20.14	0.9977	28 29	1.2876	308 48	0.8166_n	701
13	20.25	0.9993	28 18	1.2870	307 46	0.8222_n	738
14	20.35	1.0008	28 7	1.2863	306 44	0.8275_n	774
15	20.46	1.0023	27 56	1.2857	305 42	0.8326_n	811
16	+20.56	1.0038	27 46	1.2851	304 39	0.8375_n	847
17	20.66	1.0053	27 36	1.2845	303 37	0.8422_n	884
18	20.76	1.0067	27 26	1.2839	302 34	0.8468_n	921
19	20.86	1.0082	27 16	1.2833	301 31	0.8512_n	957
20	20.96	1.0096	27 7	1.2827	300 28	0.8554_n	994
21	+21.06	1.0110	26 58	1.2821	299 24	0.8595_n	030
22	21.15	1.0124	26 49	1.2816	298 21	0.8634_n	067
23	21.25	1.0138	26 40	1.2810	297 17	0.8671_n	104
24	21.34	1.0152	26 32	1.2805	296 14	0.8706_n	140
25	21.43	1.0166	26 24	1.2800	295 10	0.8739_n	177
26	+21.52	1.0179	26 17	1.2795	294 6	0.8771_n	213
27	21.61	1.0193	26 9	1.2790	293 2	0.8801_n	250
28	21.70	1.0206	26 2	1.2785	291 58	0.8830_n	287
März 1	21.79	1.0220	25 55	1.2781	290 54	0.8858_n	323
2	21.88	1.0233	25 48	1.2777	289 49	0.8884_n	360
3	+21.97	1.0246	25 41	1.2773	288 45	0.8909_n	396
4	22.05	1.0259	25 35	1.2769	287 41	0.8932_n	433
5	22.14	1.0272	25 29	1.2765	286 36	0.8954_n	470
6	22.22	1.0285	25 24	1.2762	285 31	0.8974_n	506
7	22.30	1.0298	25 18	1.2758	284 26	0.8992_n	543
8	+22.38	1.0311	25 13	1.2755	283 22	0.9009_n	579
9	22.46	1.0324	25 8	1.2752	282 17	0.9025_n	616
10	22.54	1.0337	25 3	1.2750	281 12	0.9039_n	653
11	22.62	1.0350	24 58	1.2748	280 7	0.9052_n	689
12	22.70	1.0362	24 54	1.2745	279 2	0.9064_n	726
13	+22.78	1.0375	24 50	1.2743	277 57	0.9074_n	762
14	22.86	1.0388	24 46	1.2742	276 52	0.9083_n	799
15	22.94	1.0401	24 42	1.2740	275 47	0.9091_n	836

Constanten für die mittleren Tage 1901,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
	"		° ′		° ′		
März 15	+22.94	1.0401	24 42	1.2740	275 47	0.9091_n	836
16	23.02	1.0414	24 39	1.2739	274 42	0.9097_n	872
17	23.10	1.0427	24 36	1.2738	273 37	0.9102_n	909
18	23.17	1.0440	24 33	1.2738	272 32	0.9106_n	945
19	23.25	1.0453	24 30	1.2737	271 27	0.9108_n	982
20	+23.33	1.0466	24 27	1.2737	270 22	0.9109_n	019
21	23.40	1.0479	24 25	1.2737	269 17	0.9109_n	055
22	23.48	1.0492	24 23	1.2737	268 13	0.9108_n	092
23	23.56	1.0505	24 21	1.2738	267 8	0.9105_n	128
24	23.64	1.0519	24 20	1.2738	266 3	0.9101_n	165
25	+23.72	1.0532	24 18	1.2739	264 58	0.9095_n	202
26	23.80	1.0546	24 17	1.2740	263 54	0.9088_n	238
27	23.88	1.0559	24 16	1.2742	262 49	0.9080_n	275
28	23.96	1.0573	24 15	1.2744	261 45	0.9071_n	311
29	24.04	1.0587	24 14	1.2746	260 40	0.9061_n	348
30	+24.12	1.0601	24 13	1.2748	259 36	0.9049_n	385
31	24.20	1.0615	24 13	1.2750	258 32	0.9036_n	421
April 1	24.28	1.0630	24 12	1.2753	257 28	0.9022_n	458
2	24.36	1.0644	24 12	1.2756	256 24	0.9006_n	494
3	24.44	1.0659	24 12	1.2759	255 20	0.8989_n	531
4	+24.52	1.0673	24 12	1.2762	254 16	0.8970_n	568
5	24.61	1.0688	24 12	1.2766	253 13	0.8950_n	604
6	24.69	1.0703	24 12	1.2769	252 9	0.8929_n	641
7	24.77	1.0718	24 12	1.2773	251 6	0.8906_n	677
8	24.85	1.0733	24 12	1.2777	250 3	0.8882_n	714
9	+24.94	1.0748	24 13	1.2781	249 0	0.8856_n	751
10	25.02	1.0763	24 13	1.2786	247 57	0.8829_n	787
11	25.11	1.0779	24 14	1.2790	246 55	0.8801_n	824
12	25.20	1.0794	24 14	1.2795	245 52	0.8771_n	860
13	25.29	1.0810	24 15	1.2800	244 50	0.8740_n	897
14	+25.38	1.0826	24 16	1.2805	243 48	0.8707_n	934
15	25.47	1.0842	24 17	1.2810	242 46	0.8673_n	970
16	25.56	1.0858	24 18	1.2815	241 44	0.8637_n	007
17	25.66	1.0875	24 19	1.2821	240 42	0.8600_n	043
18	25.75	1.0891	24 20	1.2826	239 41	0.8561_n	080
19	+25.85	1.0908	24 21	1.2832	238 40	0.8520_n	117
20	25.95	1.0925	24 22	1.2837	237 39	0.8478_n	153
21	26.04	1.0942	24 23	1.2843	236 38	0.8434_n	190

Constanten für die mittleren Tage 1901,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
	"		° ′		° ′		
April 21	+26.04	1.0942	24 23	1.2843	236 38	0.8434_n	190
22	26.14	1.0959	24 24	1.2849	235 37	0.8388_n	226
23	26.24	1.0977	24 25	1.2855	234 37	0.8341_n	263
24	26.34	1.0994	24 26	1.2861	233 37	0.8292_n	300
25	26.45	1.1012	24 27	1.2868	232 37	0.8242_n	336
26	+26.55	1.1029	24 28	1.2874	231 37	0.8189_n	373
27	26.66	1.1047	24 29	1.2880	230 37	0.8134_n	409
28	26.76	1.1065	24 30	1.2886	229 38	0.8078_n	446
29	26.87	1.1083	24 31	1.2892	228 39	0.8020_n	483
30	26.98	1.1101	24 32	1.2899	227 40	0.7960_n	519
Mai 1	+27.09	1.1119	24 33	1.2905	226 41	0.7897_n	556
2	27.20	1.1137	24 34	1.2911	225 42	0.7832_n	592
3	27.31	1.1156	24 34	1.2918	224 44	0.7765_n	629
4	27.42	1.1174	24 35	1.2924	223 46	0.7696_n	666
5	27.54	1.1193	24 36	1.2930	222 48	0.7625_n	702
6	+27.65	1.1211	24 36	1.2937	221 50	0.7551_n	739
7	27.77	1.1230	24 37	1.2943	220 52	0.7474_n	775
8	27.89	1.1249	24 37	1.2949	219 55	0.7395_n	812
9	28.01	1.1268	24 38	1.2955	218 58	0.7313_n	849
10	28.13	1.1287	24 38	1.2961	218 1	0.7229_n	885
11	+28.26	1.1306	24 38	1.2968	217 4	0.7142_n	922
12	28.38	1.1325	24 38	1.2974	216 7	0.7052_n	958
13	28.51	1.1344	24 38	1.2980	215 11	0.6958_n	995
14	28.63	1.1363	24 38	1.2986	214 14	0.6861_n	032
15	28.76	1.1382	24 37	1.2991	213 18	0.6761_n	068
16	+28.89	1.1401	24 37	1.2997	212 22	0.6657_n	105
17	29.02	1.1421	24 37	1.3002	211 27	0.6550_n	141
18	29.15	1.1440	24 36	1.3008	210 31	0.6438_n	178
19	29.29	1.1460	24 36	1.3014	209 36	0.6322_n	215
20	29.42	1.1479	24 35	1.3019	208 40	0.6202_n	251
21	+29.56	1.1499	24 34	1.3024	207 45	0.6078_n	288
22	29.69	1.1518	24 33	1.3029	206 50	0.5948_n	324
23	29.83	1.1538	24 32	1.3034	205 55	0.5813_n	361
24	29.97	1.1557	24 31	1.3039	205 0	0.5673_n	398
25	30.11	1.1577	24 30	1.3044	204 6	0.5527_n	434
26	+30.25	1.1596	24 29	1.3049	203 12	0.5375_n	471
27	30.39	1.1615	24 27	1.3053	202 17	0.5216_n	507
28	30.53	1.1634	24 25	1.3058	201 23	0.5049_n	544

Constanten für die mittleren Tage 1901,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	*f*	log. *g*	*G*	log. *h*	*H*	log. *i*	☾
Mai 28	+30.″53	1.1634	24° 25′	1.3058	201° 23′	0.5049_n	544
29	30.67	1.1653	24 23	1.3062	200 29	0.4875_n	581
30	30.81	1.1672	24 21	1.3066	199 35	0.4692_n	617
31	30.96	1.1691	24 19	1.3070	198 41	0.4500_n	654
Juni 1	31.10	1.1711	24 17	1.3073	197 48	0.4297_n	690
2	+31.25	1.1730	24 15	1.3077	196 54	0.4084_n	727
3	31.40	1.1749	24 13	1.3080	196 1	0.3859_n	764
4	31.55	1.1768	24 10	1.3083	195 7	0.3620_n	800
5	31.70	1.1787	24 8	1.3087	194 14	0.3365_n	837
6	31.85	1.1806	24 5	1.3090	193 21	0.3094_n	873
7	+32.00	1.1825	24 2	1.3092	192 28	0.2804_n	910
8	32.15	1.1843	23 59	1.3095	191 35	0.2491_n	947
9	32.30	1.1862	23 56	1.3097	190 42	0.2153_n	983
10	32.45	1.1880	23 53	1.3099	189 49	0.1785_n	020
11	32.60	1.1899	23 50	1.3101	188 56	0.1382_n	056
12	+32.75	1.1917	23 47	1.3103	188 3	0.0937_n	093
13	32.90	1.1935	23 43	1.3105	187 10	0.0439_n	130
14	33.05	1.1953	23 40	1.3106	186 17	9.9875_n	166
15	33.20	1.1971	23 36	1.3107	185 25	9.9225_n	203
16	33.36	1.1989	23 32	1.3109	184 32	9.8460_n	239
17	+33.51	1.2007	23 28	1.3110	183 40	9.7529_n	276
18	33.66	1.2025	23 24	1.3110	182 47	9.6344_n	313
19	33.82	1.2043	23 20	1.3111	181 54	9.4703_n	349
20	33.97	1.2060	23 16	1.3111	181 2	9.2036_n	386
21	34.12	1.2077	23 12	1.3111	180 9	8.3838_n	422
22	+34.27	1.2094	23 8	1.3111	179 17	9.0473	459
23	34.43	1.2111	23 3	1.3111	178 24	9.3929	496
24	34.58	1.2128	22 58	1.3110	177 32	9.5826	532
25	34.74	1.2145	22 54	1.3110	176 39	9.7142	569
26	34.89	1.2162	22 49	1.3109	175 47	9.8150	605
27	+35.05	1.2179	22 45	1.3108	174 54	9.8966	642
28	35.20	1.2195	22 40	1.3107	174 2	9.9651	679
29	35.35	1.2211	22 35	1.3105	173 9	0.0242	715
30	35.51	1.2227	22 30	1.3104	172 17	0.0761	752
Juli 1	35.66	1.2243	22 25	1.3102	171 24	0.1224	788
2	+35.81	1.2259	22 20	1.3100	170 31	0.1641	825
3	35.96	1.2274	22 15	1.3098	169 38	0.2020	862
4	36.11	1.2290	22 10	1.3096	168 46	0.2368	898

Constanten für die mittleren Tage 1901,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12ʰ Mittl. Zeit		f	log. g	G	log. h	H	log. i	☾
Juli	4	+36.11	1.2290	22° 10′	1.3096	168° 46′	0.2368	898
	5	36.26	1.2306	22 5	1.3093	167 53	0.2689	935
	6	36.40	1.2321	22 0	1.3090	167 0	0.2986	971
	7	36.55	1.2336	21 55	1.3088	166 6	0.3263	008
	8	36.70	1.2351	21 50	1.3085	165 13	0.3523	045
	9	+36.85	1.2366	21 45	1.3082	164 20	0.3767	081
	10	36.99	1.2380	21 39	1.3078	163 27	0.3997	118
	11	37.14	1.2394	21 34	1.3074	162 34	0.4214	154
	12	37.28	1.2408	21 28	1.3071	161 40	0.4419	191
	13	37.43	1.2422	21 23	1.3067	160 47	0.4614	228
	14	+37.57	1.2436	21 17	1.3063	159 53	0.4800	264
	15	37.72	1.2450	21 12	1.3059	159 0	0.4977	301
	16	37.86	1.2463	21 6	1.3055	158 6	0.5146	337
	17	38.00	1.2476	21 1	1.3051	157 12	0.5307	374
	18	38.14	1.2489	20 55	1.3046	156 18	0.5462	411
	19	+38.28	1.2502	20 50	1.3041	155 24	0.5610	447
	20	38.41	1.2515	20 44	1.3037	154 29	0.5752	484
	21	38.55	1.2528	20 38	1.3032	153 35	0.5888	520
	22	38.68	1.2541	20 32	1.3027	152 40	0.6019	557
	23	38.82	1.2553	20 27	1.3021	151 46	0.6145	594
	24	+38.95	1.2565	20 21	1.3016	150 51	0.6266	630
	25	39.08	1.2577	20 16	1.3010	149 56	0.6383	667
	26	39.21	1.2589	20 10	1.3005	149 0	0.6496	703
	27	39.34	1.2601	20 5	1.3000	148 5	0.6605	740
	28	39.47	1.2613	19 59	1.2994	147 10	0.6709	777
	29	+39.60	1.2625	19 54	1.2988	146 14	0.6810	813
	30	39.72	1.2636	19 48	1.2983	145 18	0.6908	850
	31	39.85	1.2647	19 43	1.2977	144 22	0.7003	886
Aug.	1	39.97	1.2658	19 37	1.2971	143 26	0.7094	923
	2	40.10	1.2669	19 32	1.2965	142 29	0.7182	960
	3	+40.22	1.2680	19 27	1.2958	141 33	0.7267	996
	4	40.34	1.2691	19 21	1.2952	140 37	0.7350	033
	5	40.46	1.2701	19 16	1.2946	139 40	0.7430	069
	6	40.58	1.2712	19 11	1.2940	138 43	0.7507	106
	7	40.69	1.2722	19 6	1.2934	137 46	0.7582	143
	8	+40.80	1.2732	19 1	1.2928	136 49	0.7654	179
	9	40.91	1.2742	18 56	1.2921	135 51	0.7724	216
	10	41.02	1.2752	18 51	1.2915	134 53	0.7792	252

Constanten für die mittleren Tage 1901,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Aug. 10	+41.02″	1.2752	18° 51′	1.2915	134° 53′	0.7792	252
11	41.13	1.2761	18 46	1.2909	133 55	0.7857	289
12	41.24	1.2771	18 42	1.2903	132 57	0.7920	326
13	41.35	1.2780	18 37	1.2896	131 59	0.7981	362
14	41.45	1.2789	18 33	1.2890	131 0	0.8040	399
15	+41.56	1.2798	18 28	1.2884	130 1	0.8097	435
16	41.66	1.2807	18 24	1.2878	129 3	0.8152	472
17	41.77	1.2816	18 19	1.2872	128 4	0.8205	509
18	41.87	1.2825	18 15	1.2866	127 5	0.8257	545
19	41.97	1.2833	18 10	1.2860	126 5	0.8307	582
20	+42.07	1.2842	18 6	1.2854	125 6	0.8355	618
21	42.17	1.2850	18 2	1.2848	124 6	0.8401	655
22	42.27	1.2859	17 58	1.2842	123 6	0.8446	692
23	42.36	1.2867	17 54	1.2836	122 6	0.8489	728
24	42.46	1.2875	17 50	1.2830	121 6	0.8530	765
25	+42.55	1.2883	17 46	1.2825	120 5	0.8570	802
26	42.64	1.2891	17 42	1.2820	119 4	0.8608	839
27	42.73	1.2899	17 39	1.2814	118 3	0.8645	875
28	42.82	1.2907	17 35	1.2809	117 2	0.8680	912
29	42.91	1.2915	17 32	1.2804	116 1	0.8713	948
30	+43.00	1.2923	17 29	1.2799	115 0	0.8745	985
31	43.09	1.2930	17 26	1.2794	113 58	0.8776	022
Sept. 1	43.18	1.2938	17 23	1.2790	112 56	0.8805	058
2	43.26	1.2945	17 20	1.2785	111 54	0.8833	095
3	43.35	1.2952	17 17	1.2781	110 52	0.8859	131
4	+43.43	1.2959	17 15	1.2777	109 50	0.8884	168
5	43.52	1.2967	17 12	1.2773	108 48	0.8908	205
6	43.60	1.2974	17 10	1.2769	107 45	0.8930	241
7	43.68	1.2981	17 7	1.2765	106 43	0.8951	278
8	43.76	1.2988	17 5	1.2762	105 40	0.8971	314
9	+43.84	1.2995	17 3	1.2759	104 37	0.8989	351
10	43.92	1.3002	17 1	1.2756	103 34	0.9006	388
11	44.00	1.3009	16 59	1.2753	102 31	0.9022	424
12	44.08	1.3016	16 57	1.2750	101 28	0.9036	461
13	44.16	1.3023	16 56	1.2748	100 24	0.9049	497
14	+44.24	1.3030	16 54	1.2746	99 21	0.9061	534
15	44.32	1.3037	16 53	1.2744	98 17	0.9071	571
16	44.39	1.3045	16 51	1.2742	97 14	0.9080	607

Constanten für die mittleren Tage 1901,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Sept. 16	+44.39	1.3045	16° 51′	1.2742	97° 14′	0.9080	607
17	44.46	1.3052	16 50	1.2741	96 10	0.9088	644
18	44.54	1.3059	16 49	1.2739	95 6	0.9095	680
19	44.61	1.3066	16 48	1.2738	94 2	0.9101	717
20	44.69	1.3073	16 47	1.2738	92 58	0.9105	754
21	+44.76	1.3080	16 46	1.2737	91 54	0.9107	790
22	44.84	1.3087	16 45	1.2737	90 50	0.9109	827
23	44.92	1.3094	16 45	1.2737	89 46	0.9109	863
24	45.00	1.3101	16 44	1.2737	88 42	0.9108	900
25	45.07	1.3108	16 44	1.2738	87 38	0.9106	937
26	+45.15	1.3115	16 44	1.2738	86 34	0.9103	973
27	45.22	1.3122	16 44	1.2739	85 30	0.9098	010
28	45.30	1.3130	16 44	1.2740	84 26	0.9092	046
29	45.37	1.3137	16 44	1.2741	83 22	0.9085	083
30	45.45	1.3145	16 44	1.2743	82 18	0.9076	120
Oct. 1	+45.53	1.3152	16 44	1.2745	81 13	0.9066	156
2	45.61	1.3160	16 44	1.2747	80 9	0.9055	193
3	45.68	1.3167	16 44	1.2749	79 5	0.9043	229
4	45.76	1.3175	16 45	1.2752	78 1	0.9029	266
5	45.84	1.3183	16 45	1.2754	76 57	0.9014	303
6	+45.92	1.3191	16 46	1.2757	75 53	0.8997	339
7	46.00	1.3199	16 46	1.2761	74 49	0.8979	376
8	46.08	1.3207	16 47	1.2764	73 45	0.8960	412
9	46.16	1.3215	16 48	1.2768	72 41	0.8939	449
10	46.25	1.3223	16 49	1.2771	71 38	0.8917	486
11	+46.33	1.3231	16 50	1.2775	70 34	0.8893	522
12	46.42	1.3239	16 51	1.2780	69 31	0.8868	559
13	46.50	1.3247	16 52	1.2784	68 27	0.8842	595
14	46.59	1.3256	16 53	1.2788	67 24	0.8814	632
15	46.68	1.3264	16 54	1.2793	66 20	0.8784	669
16	+46.77	1.3273	16 55	1.2798	65 17	0.8753	705
17	46.85	1.3282	16 56	1.2803	64 14	0.8720	742
18	46.94	1.3291	16 58	1.2808	63 11	0.8686	778
19	47.03	1.3300	16 59	1.2813	62 8	0.8650	815
20	47.12	1.3309	17 1	1.2819	61 6	0.8613	852
21	+47.21	1.3318	17 2	1.2824	60 3	0.8574	888
22	47.30	1.3327	17 4	1.2830	59 0	0.8533	925
23	47.40	1.3336	17 5	1.2836	57 58	0.8491	961

Constanten für die mittleren Tage 1901,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Oct. 23	+47.40	1.3336	17° 5′	1.2836	57° 58′	0.8491	961
24	47.50	1.3346	17 7	1.2842	56 56	0.8447	998
25	47.60	1.3355	17 8	1.2848	55 54	0.8401	035
26	47.70	1.3365	17 10	1.2854	54 52	0.8353	071
27	47.80	1.3374	17 12	1.2860	53 50	0.8303	108
28	+47.90	1.3384	17 13	1.2866	52 49	0.8251	144
29	48.00	1.3394	17 15	1.2873	51 47	0.8198	181
30	48.11	1.3404	17 17	1.2879	50 46	0.8142	218
31	48.21	1.3414	17 19	1.2885	49 45	0.8084	254
Nov. 1	48.32	1.3425	17 20	1.2892	48 44	0.8024	291
2	+48.43	1.3435	17 22	1.2898	47 43	0.7962	327
3	48.54	1.3446	17 23	1.2905	46 42	0.7897	364
4	48.65	1.3456	17 25	1.2911	45 41	0.7830	401
5	48.76	1.3467	17 26	1.2918	44 41	0.7761	437
6	48.87	1.3478	17 28	1.2925	43 40	0.7689	474
7	+48.99	1.3489	17 29	1.2931	42 40	0.7615	510
8	49.11	1.3500	17 31	1.2938	41 40	0.7538	547
9	49.23	1.3511	17 32	1.2944	40 40	0.7457	584
10	49.35	1.3522	17 33	1.2951	39 41	0.7374	620
11	49.47	1.3533	17 34	1.2958	38 41	0.7289	657
12	+49.59	1.3544	17 35	1.2964	37 42	0.7200	693
13	49.72	1.3556	17 36	1.2970	36 42	0.7108	730
14	49.84	1.3567	17 37	1.2976	35 43	0.7012	767
15	49.97	1.3579	17 38	1.2982	34 44	0.6913	803
16	50.10	1.3590	17 39	1.2988	33 45	0.6810	840
17	+50.23	1.3602	17 40	1.2995	32 47	0.6703	876
18	50.36	1.3614	17 41	1.3001	31 48	0.6592	913
19	50.50	1.3626	17 42	1.3006	30 50	0.6476	950
20	50.63	1.3637	17 42	1.3012	29 52	0.6356	986
21	50.77	1.3649	17 43	1.3018	28 54	0.6232	023
22	+50.90	1.3661	17 44	1.3023	27 56	0.6102	059
23	51.04	1.3673	17 44	1.3028	26 58	0.5966	096
24	51.18	1.3685	17 44	1.3034	26 0	0.5825	133
25	51.32	1.3697	17 45	1.3039	25 2	0.5677	169
26	51.46	1.3709	17 45	1.3044	24 5	0.5523	206
27	+51.61	1.3722	17 45	1.3049	23 7	0.5362	242
28	51.75	1.3734	17 45	1.3054	22 10	0.5193	279
29	51.90	1.3746	17 45	1.3058	21 13	0.5016	316

Constanten für die mittleren Tage 1901,

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12^h Mittl. Zeit	*f*	log. *g*	*G*	log. *h*	*H*	log. *i*	☾
Nov. 29	+51.90″	1.3746	17° 45′	1.3058	21° 13′	0.5016	316
30	52.05	1.3758	17 45	1.3063	20 16	0.4830	352
Dec. 1	52.19	1.3771	17 44	1.3067	19 19	0.4634	389
2	52.34	1.3783	17 44	1.3071	18 22	0.4428	425
3	52.50	1.3796	17 44	1.3075	17 25	0.4209	462
4	+52.65	1.3808	17 43	1.3078	16 28	0.3977	499
5	52.80	1.3820	17 43	1.3082	15 31	0.3731	535
6	52.95	1.3832	17 42	1.3085	14 35	0.3468	572
7	53.11	1.3845	17 41	1.3088	13 38	0.3187	608
8	53.26	1.3857	17 41	1.3091	12 42	0.2885	645
9	+53.41	1.3869	17 40	1.3094	11 45	0.2559	682
10	53.56	1.3881	17 39	1.3097	10 49	0.2204	718
11	53.72	1.3893	17 38	1.3099	9 53	0.1816	755
12	53.87	1.3905	17 37	1.3101	8 56	0.1389	791
13	54.03	1.3917	17 36	1.3103	8 0	0.0914	828
14	+54.18	1.3929	17 35	1.3105	7 4	0.0378	865
15	54.34	1.3941	17 33	1.3107	6 8	9.9766	901
16	54.50	1.3953	17 32	1.3108	5 12	9.9051	938
17	54.66	1.3965	17 30	1.3109	4 16	9.8192	974
18	54.82	1.3977	17 28	1.3110	3 20	9.7119	011
19	+54.98	1.3989	17 26	1.3110	2 24	9.5688	048
20	55.14	1.4001	17 24	1.3111	1 28	9.3537	084
21	55.30	1.4013	17 22	1.3111	0 31	8.9090	121
22	55.46	1.4025	17 20	1.3111	359 35	8.8048_n	157
23	55.62	1.4036	17 18	1.3111	358 39	9.3193_n	194
24	+55.78	1.4048	17 16	1.3110	357 43	9.5484_n	231
25	55.94	1.4059	17 13	1.3110	356 47	9.6974_n	267
26	56.10	1.4071	17 11	1.3109	355 51	9.8080_n	304
27	56.26	1.4082	17 8	1.3108	354 55	9.8960_n	340
28	56.41	1.4093	17 6	1.3107	353 59	9.9690_n	377
29	+56.57	1.4104	17 3	1.3105	353 2	0.0315_n	414
30	56.72	1.4115	17 0	1.3103	352 6	0.0859_n	450
31	56.88	1.4126	16 58	1.3101	351 10	0.1340_n	487
32	57.03	1.4137	16 55	1.3099	350 13	0.1773_n	523
33	57.19	1.4147	16 52	1.3097	349 17	0.2166_n	560
34	+57.34	1.4158	16 49	1.3095	348 21	0.2524_n	597
35	57.50	1.4169	16 46	1.3092	347 24	0.2854_n	633
36	57.65	1.4180	16 43	1.3089	346 27	0.3159_n	670

Constanten zur Berücksichtigung der Nutations-Glieder von kurzer Periode für 1901.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
000	6.890_n	8.947_n	−0.″04	8.954	260.°0	350	7.716	8.437	+0.″24	9.032	14.°7
010	7.085_n	8.944_n	−0.06	8.960	254.5	360	7.726	8.220	+0.25	9.033	8.8
020	7.216_n	8.934_n	−0.08	8.963	249.0	370	7.730	7.745	+0.25	9.033	2.9
030	7.312_n	8.916_n	−0.10	8.964	243.5	380	7.729	7.745_n	+0.25	9.032	357.0
040	7.386_n	8.890_n	−0.11	8.962	237.8	390	7.722	8.220_n	+0.24	9.030	351.1
050	7.445_n	8.855_n	−0.13	8.958	232.1	400	7.710	8.437_n	+0.24	9.027	345.1
060	7.491_n	8.810_n	−0.14	8.952	226.1	410	7.691	8.577_n	+0.23	9.023	339.0
070	7.527_n	8.752_n	−0.15	8.944	220.0	420	7.666	8.676_n	+0.21	9.018	332.9
080	7.554_n	8.676_n	−0.16	8.935	213.5	430	7.632	8.752_n	+0.20	9.013	326.7
090	7.573_n	8.577_n	−0.17	8.924	206.7	440	7.591	8.810_n	+0.18	9.006	320.4
100	7.584_n	8.437_n	−0.18	8.913	199.6	450	7.539	8.855_n	+0.16	8.999	314.1
110	7.590_n	8.220_n	−0.18	8.902	192.1	460	7.474	8.890_n	+0.14	8.991	307.6
120	7.587_n	7.745_n	−0.18	8.890	184.1	470	7.391	8.916_n	+0.11	8.982	300.9
130	7.578_n	7.745	−0.18	8.881	175.8	480	7.283	8.934_n	+0.09	8.973	294.1
140	7.560_n	8.220	−0.17	8.874	167.2	490	7.131	8.944_n	+0.06	8.964	287.1
150	7.535_n	8.437	−0.16	8.869	158.3	500	6.890	8.947_n	+0.04	8.954	280.0
160	7.500_n	8.577	−0.15	8.868	149.2	510	6.298	8.944_n	+0.01	8.944	272.6
170	7.453_n	8.676	−0.13	8.870	140.2	520	6.573_n	8.934_n	−0.02	8.935	265.0
180	7.392_n	8.752	−0.11	8.875	131.2	530	6.970_n	8.916_n	−0.04	8.927	257.2
190	7.311_n	8.810	−0.09	8.884	122.4	540	7.168_n	8.890_n	−0.07	8.920	249.1
200	7.199_n	8.855	−0.07	8.894	113.9	550	7.297_n	8.855_n	−0.09	8.914	241.0
210	7.036_n	8.890	−0.05	8.907	105.7	560	7.390_n	8.810_n	−0.11	8.910	232.7
220	6.751_n	8.916	−0.03	8.920	97.8	570	7.460_n	8.752_n	−0.13	8.908	224.3
230	5.320_n	8.934	−0.00	8.934	90.3	580	7.514_n	8.676_n	−0.15	8.908	215.9
240	6.728	8.944	+0.02	8.947	83.0	590	7.556_n	8.577_n	−0.17	8.911	207.6
250	7.039	8.947	+0.05	8.960	76.0	600	7.588_n	8.437_n	−0.18	8.915	199.4
260	7.219	8.944	+0.08	8.973	69.3	610	7.610_n	8.220_n	−0.19	8.921	191.5
270	7.341	8.934	+0.10	8.984	62.9	620	7.626_n	7.745_n	−0.20	8.929	183.8
280	7.433	8.916	+0.12	8.994	56.6	630	7.635_n	7.745	−0.20	8.937	176.3
290	7.506	8.890	+0.15	9.003	50.4	640	7.636_n	8.220	−0.20	8.946	169.1
300	7.564	8.855	+0.17	9.012	44.3	650	7.632_n	8.437	−0.20	8.955	162.3
310	7.611	8.810	+0.19	9.018	38.3	660	7.621_n	8.577	−0.19	8.963	155.8
320	7.648	8.752	+0.20	9.023	32.4	670	7.603_n	8.676	−0.18	8.970	149.4
330	7.677	8.676	+0.22	9.027	26.5	680	7.578_n	8.752	−0.17	8.976	143.3
340	7.700	8.577	+0.23	9.031	20.6	690	7.545_n	8.810	−0.16	8.980	137.4
350	7.716	8.437	+0.24	9.032	14.7	700	7.503_n	8.855	−0.15	8.982	131.7

Constanten zur Berücksichtigung der Nutations-Glieder von kurzer Periode für 1901.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
700	7.503_n	8.855	−0.15	8.982	131.7	850	7.400	8.437	+0.12	8.759	28.5
710	7.451_n	8.890	−0.13	8.982	126.1	860	7.422	8.220	+0.12	8.745	17.4
720	7.384_n	8.916	−0.11	8.981	120.5	870	7.434	7.745	+0.13	8.739	5.8
730	7.300_n	8.934	−0.09	8.977	115.0	880	7.436	7.745_n	+0.13	8.741	354.2
740	7.191_n	8.944	−0.07	8.970	109.5	890	7.429	8.220_n	+0.13	8.751	342.9
750	7.039_n	8.947	−0.05	8.960	103.9	900	7.412	8.437_n	+0.12	8.768	332.2
760	6.801_n	8.944	−0.03	8.948	98.2	910	7.385	8.577_n	+0.11	8.789	322.2
770	6.240_n	8.934	−0.01	8.934	92.3	920	7.345	8.676_n	+0.10	8.813	313.1
780	6.436	8.916	+0.01	8.917	86.2	930	7.291	8.752_n	+0.09	8.837	304.8
790	6.845	8.890	+0.03	8.897	79.8	940	7.218	8.810_n	+0.08	8.861	297.1
800	7.043	8.855	+0.05	8.875	72.8	950	7.116	8.855_n	+0.06	8.883	290.1
810	7.168	8.810	+0.07	8.851	65.4	960	6.968	8.890_n	+0.04	8.902	283.5
820	7.256	8.752	+0.08	8.826	57.4	970	6.720	8.916_n	+0.02	8.919	277.3
830	7.320	8.676	+0.10	8.801	48.6	980	5.999	8.934_n	0.00	8.934	271.3
840	7.367	8.577	+0.11	8.778	38.9	990	6.526_n	8.944_n	−0.02	8.945	265.6
850	7.400	8.437	+0.12	8.759	28.5	000	6.890_n	8.947_n	−0.04	8.954	260.0

Correction der Schiefe der Ekliptik für die Glieder von kurzer Periode.

Argument ☾		Δε	Argument ☾		Δε	Argument ☾		Δε
000	500	+0.09	200	700	−0.07	400	900	+0.03
020	520	+0.09	220	720	−0.08	420	920	+0.05
040	540	+0.08	240	740	−0.09	440	940	+0.07
060	560	+0.07	260	760	−0.09	460	960	+0.08
080	580	+0.05	280	780	−0.08	480	980	+0.09
100	600	+0.03	300	800	−0.07	500	000	+0.09
120	620	+0.01	320	820	−0.06			
140	640	−0.02	340	840	−0.04			
160	660	−0.04	360	860	−0.02			
180	680	−0.06	380	880	+0.01			
200	700	−0.07	400	900	+0.03			

Constanten für die Stern-Tage 1901,

gültig für die Sternzeit-Epochen $8^h\ 53^m.8$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Jan. 0.593	0.0000	9.4838	0.7092	0.5118_n	1.3045	−3.249
1.590	0.0027	9.4898	0.7125	0.5535_n	1.3031	3.577
2.587	0.0055	9.4967	0.7149	0.5914_n	1.3015	3.903
3.585	0.0082	9.5040	0.7160	0.6262_n	1.2998	4.229
4.582	0.0109	9.5112	0.7155	0.6583_n	1.2980	4.553
5.579	0.0136	9.5178	0.7135	0.6880_n	1.2960	−4.875
6.576	0.0164	9.5233	0.7104	0.7157_n	1.2938	5.196
7.574	0.0191	9.5277	0.7067	0.7416_n	1.2915	5.515
8.571	0.0218	9.5309	0.7031	0.7659_n	1.2891	5.833
9.568	0.0246	9.5332	0.7004	0.7888_n	1.2865	6.149
10.566	0.0273	9.5348	0.6990	0.8104_n	1.2838	−6.463
11.563	0.0300	9.5363	0.6992	0.8308_n	1.2809	
12.560	0.0328	9.5381	0.7007	0.8502_n	1.2778	
13.557	0.0355	9.5408	0.7032	0.8687_n	1.2746	
14.555	0.0382	9.5444	0.7061	0.8862_n	1.2712	
15.552	0.0410	9.5491	0.7086	0.9030_n	1.2677	
16.549	0.0437	9.5545	0.7100	0.9190_n	1.2639	
17.546	0.0464	9.5603	0.7100	0.9342_n	1.2601	
18.544	0.0491	9.5661	0.7084	0.9489_n	1.2560	
19.541	0.0519	9.5714	0.7054	0.9629_n	1.2518	
20.538	0.0546	9.5759	0.7014	0.9763_n	1.2474	
21.536	0.0573	9.5794	0.6970	0.9893_n	1.2428	
22.533	0.0601	9.5821	0.6930	1.0017_n	1.2380	
23.530	0.0628	9.5840	0.6901	1.0136_n	1.2331	
24.527	0.0655	9.5856	0.6887	1.0250_n	1.2280	
25.525	0.0683	9.5873	0.6888	1.0361_n	1.2226	
26.522	0.0710	9.5894	0.6903	1.0467_n	1.2170	
27.519	0.0737	9.5923	0.6926	1.0569_n	1.2113	
28.516	0.0764	9.5959	0.6951	1.0668_n	1.2053	
29.514	0.0792	9.6003	0.6970	1.0763_n	1.1991	
30.511	0.0819	9.6052	0.6978	1.0855_n	1.1927	
31.508	0.0846	9.6102	0.6970	1.0944_n	1.1860	
Febr. 1.505	0.0874	9.6150	0.6946	1.1029_n	1.1791	
2.503	0.0901	9.6190	0.6909	1.1111_n	1.1720	
3.500	0.0928	9.6222	0.6863	1.1191_n	1.1646	
4.497	0.0956	9.6244	0.6816	1.1268_n	1.1569	
5.495	0.0983	9.6256	0.6776	1.1341_n	1.1490	
6.492	0.1010	9.6263	0.6749	1.1413_n	1.1408	

$E = +0\overset{''}{.}04$

Constanten für die Stern-Tage 1901,

gültig für die Sternzeit-Epochen $8^h\ 53^m.8$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Febr. 6.492	0.1010	9.6263	0.6749	1.1413_n	1.1408	
7.489	0.1038	9.6267	0.6737	1.1482_n	1.1323	
8.486	0.1065	9.6272	0.6742	1.1548_n	1.1235	
9.484	0.1092	9.6283	0.6761	1.1612_n	1.1144	
10.481	0.1120	9.6300	0.6786	1.1674_n	1.1049	
11.478	0.1147	9.6327	0.6811	1.1734_n	1.0951	
12.475	0.1174	9.6361	0.6828	1.1791_n	1.0850	
13.473	0.1201	9.6399	0.6831	1.1847_n	1.0744	
14.470	0.1229	9.6439	0.6819	1.1900_n	1.0635	
15.467	0.1256	9.6477	0.6791	1.1952_n	1.0522	
16.465	0.1283	9.6509	0.6751	1.2001_n	1.0404	
17.462	0.1311	9.6534	0.6705	1.2048_n	1.0281	
18.459	0.1338	9.6551	0.6660	1.2094_n	1.0154	
19.456	0.1365	9.6561	0.6624	1.2138_n	1.0022	
20.454	0.1393	9.6567	0.6603	1.2180_n	0.9884	
21.451	0.1420	9.6572	0.6600	1.2220_n	0.9740	
22.448	0.1447	9.6580	0.6613	1.2259_n	0.9590	
23.445	0.1474	9.6594	0.6639	1.2296_n	0.9433	
24.443	0.1502	9.6615	0.6669	1.2331_n	0.9269	
25.440	0.1529	9.6643	0.6697	1.2365_n	0.9097	
26.437	0.1556	9.6676	0.6715	1.2397_n	0.8917	
27.434	0.1584	9.6712	0.6719	1.2427_n	0.8728	
28.432	0.1611	9.6747	0.6706	1.2456_n	0.8529	
März 1.429	0.1638	9.6778	0.6678	1.2483_n	0.8319	
2.426	0.1666	9.6802	0.6640	1.2509_n	0.8098	+6.453
3.424	0.1693	9.6818	0.6597	1.2534_n	0.7863	+6.113
4.421	0.1720	9.6825	0.6560	1.2557_n	0.7613	5.772
5.418	0.1747	9.6826	0.6534	1.2578_n	0.7347	5.429
6.415	0.1775	9.6824	0.6524	1.2598_n	0.7062	5.084
7.413	0.1802	9.6822	0.6533	1.2617_n	0.6756	4.738
8.410	0.1829	9.6823	0.6557	1.2634_n	0.6426	+4.391
9.407	0.1857	9.6830	0.6592	1.2650_n	0.6067	4.042
10.404	0.1884	9.6845	0.6630	1.2665_n	0.5674	3.693
11.402	0.1911	9.6866	0.6663	1.2678_n	0.5241	3.343
12.399	0.1939	9.6894	0.6685	1.2690_n	0.4759	2.992
13.396	0.1966	9.6924	0.6691	1.2700_n	0.4216	+2.640
14.394	0.1993	9.6954	0.6681	1.2709_n	0.3594	2.288
15.391	0.2021	9.6980	0.6656	1.2717_n	0.2866	1.935

$E = +0.04$

Constanten für die Stern-Tage 1901,

gültig für die Sternzeit-Epochen $8^h\ 53^m.8$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
März 15.391	0.2021	9.6980	0.6656	1.2717_n	0.2866	+1.935
16.388	0.2048	9.7000	0.6624	1.2724_n	0.1990	1.581
17.385	0.2075	9.7014	0.6590	1.2729_n	0.0891	1.228
18.383	0.2102	9.7021	0.6563	1.2733_n	9.9415	0.874
19.380	0.2130	9.7024	0.6550	1.2735_n	9.7162	0.520
20.377	0.2157	9.7025	0.6554	1.2737_n	9.2211	+0.166
21.374	0.2184	9.7028	0.6577	1.2737_n	9.2724_n	−0.187
22.372	0.2212	9.7035	0.6613	1.2735_n	9.7329_n	0.541
23.369	0.2239	9.7048	0.6658	1.2733_n	9.9512_n	0.894
24.366	0.2266	9.7068	0.6703	1.2729_n	0.0956_n	1.246
25.363	0.2294	9.7094	0.6741	1.2723_n	0.2036_n	−1.598
26.361	0.2321	9.7124	0.6766	1.2717_n	0.2899_n	1.949
27.358	0.2348	9.7155	0.6775	1.2709_n	0.3617_n	2.300
28.355	0.2375	9.7183	0.6769	1.2700_n	0.4231_n	2.649
29.353	0.2403	9.7207	0.6750	1.2690_n	0.4768_n	2.998
30.350	0.2430	9.7223	0.6725	1.2678_n	0.5245_n	−3.346
31.347	0.2457	9.7232	0.6702	1.2665_n	0.5673_n	3.692
April 1.344	0.2485	9.7234	0.6687	1.2651_n	0.6061_n	4.037
2.342	0.2512	9.7232	0.6688	1.2635_n	0.6416_n	4.381
3.339	0.2539	9.7229	0.6705	1.2618_n	0.6742_n	4.723
4.336	0.2567	9.7229	0.6739	1.2600_n	0.7045_n	−5.064
5.333	0.2594	9.7233	0.6785	1.2580_n	0.7326_n	5.403
6.331	0.2621	9.7244	0.6837	1.2559_n	0.7589_n	5.740
7.328	0.2649	9.7262	0.6886	1.2537_n	0.7835_n	6.075
8.325	0.2676	9.7286	0.6927	1.2513_n	0.8067_n	6.408
9.323	0.2703	9.7313	0.6953	1.2488_n	0.8286_n	
10.320	0.2730	9.7342	0.6964	1.2461_n	0.8493_n	
11.317	0.2758	9.7369	0.6960	1.2433_n	0.8690_n	
12.314	0.2785	9.7391	0.6947	1.2404_n	0.8876_n	
13.312	0.2812	9.7408	0.6929	1.2373_n	0.9054_n	
14.309	0.2840	9.7418	0.6915	1.2340_n	0.9223_n	
15.306	0.2867	9.7424	0.6911	1.2306_n	0.9385_n	
16.303	0.2894	9.7428	0.6922	1.2271_n	0.9539_n	
17.301	0.2922	9.7432	0.6950	1.2234_n	0.9687_n	
18.298	0.2949	9.7439	0.6991	1.2196_n	0.9829_n	
19.295	0.2976	9.7452	0.7043	1.2156_n	0.9965_n	
20.293	0.3003	9.7471	0.7096	1.2114_n	1.0095_n	
21.290	0.3031	9.7496	0.7146	1.2071_n	1.0221_n	

$E = +0.04$

Constanten für die Stern-Tage 1901,

gültig für die Sternzeit-Epochen $8^h\ 53^m.8$ Berlin.

Datum in Mittl. Zeit		t	log. A	log. B	log. C	log. D
April	21.290	0.3031	9.7496	0.7146	1.2071_n	1.0221_n
	22.287	0.3058	9.7526	0.7185	1.2026_n	1.0341_n
	23.284	0.3085	9.7557	0.7210	1.1979_n	1.0457_n
	24.282	0.3113	9.7588	0.7220	1.1930_n	1.0569_n
	25.279	0.3140	9.7615	0.7217	1.1880_n	1.0677_n
	26.276	0.3167	9.7636	0.7206	1.1828_n	1.0781_n
	27.273	0.3195	9.7651	0.7194	1.1774_n	1.0881_n
	28.271	0.3222	9.7660	0.7186	1.1718_n	1.0978_n
	29.268	0.3249	9.7663	0.7189	1.1661_n	1.1071_n
	30.265	0.3277	9.7665	0.7207	1.1601_n	1.1161_n
Mai	1.262	0.3304	9.7668	0.7240	1.1539_n	1.1248_n
	2.260	0.3331	9.7674	0.7285	1.1475_n	1.1332_n
	3.257	0.3358	9.7686	0.7336	1.1409_n	1.1413_n
	4.254	0.3386	9.7705	0.7388	1.1340_n	1.1491_n
	5.252	0.3413	9.7729	0.7434	1.1270_n	1.1567_n
	6.249	0.3440	9.7758	0.7468	1.1197_n	1.1640_n
	7.246	0.3468	9.7788	0.7489	1.1121_n	1.1711_n
	8.243	0.3495	9.7818	0.7495	1.1043_n	1.1780_n
	9.241	0.3522	9.7845	0.7491	1.0962_n	1.1846_n
	10.238	0.3550	9.7867	0.7480	1.0879_n	1.1910_n
	11.235	0.3577	9.7883	0.7469	1.0792_n	1.1971_n
	12.232	0.3604	9.7895	0.7464	1.0703_n	1.2031_n
	13.230	0.3631	9.7904	0.7471	1.0611_n	1.2088_n
	14.227	0.3659	9.7912	0.7492	1.0515_n	1.2144_n
	15.224	0.3686	9.7922	0.7526	1.0416_n	1.2198_n
	16.222	0.3713	9.7936	0.7570	1.0313_n	1.2249_n
	17.219	0.3741	9.7956	0.7618	1.0207_n	1.2299_n
	18.216	0.3768	9.7982	0.7665	1.0097_n	1.2347_n
	19.213	0.3795	9.8012	0.7703	0.9983_n	1.2394_n
	20.211	0.3823	9.8045	0.7730	0.9865_n	1.2438_n
	21.208	0.3850	9.8078	0.7744	0.9742_n	1.2481_n
	22.205	0.3877	9.8109	0.7744	0.9614_n	1.2523_n
	23.202	0.3904	9.8135	0.7736	0.9481_n	1.2562_n
	24.200	0.3932	9.8155	0.7722	0.9343_n	1.2601_n
	25.197	0.3959	9.8170	0.7710	0.9199_n	1.2637_n
	26.194	0.3986	9.8179	0.7706	0.9049_n	1.2672_n
	27.191	0.4014	9.8186	0.7714	0.8892_n	1.2706_n
	28.189	0.4041	9.8193	0.7734	0.8729_n	1.2738_n

$E = +0.03$

Constanten für die Stern-Tage 1901,

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Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Mai 28.189	0.4041	9.8193	0.7734	0.8729_n	1.2738_n	—7.462
29.186	0.4068	9.8201	0.7767	0.8557_n	1.2769_n	7.173
30.183	0.4096	9.8214	0.7807	0.8378_n	1.2798_n	6.883
31.181	0.4123	9.8232	0.7849	0.8189_n	1.2826_n	6.591
Juni 1.178	0.4150	9.8256	0.7888	0.7991_n	1.2852_n	6.296
2.175	0.4178	9.8285	0.7918	0.7782_n	1.2877_n	—6.001
3.172	0.4205	9.8316	0.7937	0.7561_n	1.2901_n	5.703
4.170	0.4232	9.8346	0.7941	0.7327_n	1.2923_n	5.404
5.167	0.4259	9.8375	0.7935	0.7079_n	1.2944_n	5.104
6.164	0.4287	9.8400	0.7920	0.6815_n	1.2964_n	4.803
7.161	0.4314	9.8420	0.7903	0.6532_n	1.2983_n	—4.500
8.159	0.4341	9.8435	0.7889	0.6228_n	1.3000_n	4.196
9.156	0.4369	9.8447	0.7883	0.5900_n	1.3016_n	3.890
10.153	0.4396	9.8457	0.7889	0.5544_n	1.3031_n	3.584
11.151	0.4423	9.8469	0.7908	0.5155_n	1.3044_n	3.277
12.148	0.4451	9.8483	0.7937	0.4726_n	1.3056_n	—2.969
13.145	0.4478	9.8501	0.7972	0.4250_n	1.3067_n	2.661
14.142	0.4505	9.8525	0.8007	0.3713_n	1.3077_n	2.351
15.140	0.4532	9.8553	0.8038	0.3099_n	1.3085_n	2.041
16.137	0.4560	9.8584	0.8058	0.2382_n	1.3093_n	1.731
17.134	0.4587	9.8615	0.8067	0.1522_n	1.3099_n	—1.420
18.131	0.4614	9.8646	0.8063	0.0447_n	1.3104_n	1.108
19.129	0.4642	9.8673	0.8048	9.9014_n	1.3107_n	0.797
20.126	0.4669	9.8695	0.8027	9.6860_n	1.3110_n	0.485
21.123	0.4696	9.8712	0.8005	9.2394_n	1.3111_n	—0.174
22.120	0.4724	9.8724	0.7987	9.1409	1.3111_n	+0.138
23.118	0.4751	9.8733	0.7980	9.6532	1.3110_n	0.450
24.115	0.4778	9.8740	0.7984	9.8817	1.3108_n	0.762
25.112	0.4806	9.8748	0.7999	0.0305	1.3104_n	1.073
26.110	0.4833	9.8759	0.8024	0.1411	1.3099_n	1.384
27.107	0.4860	9.8774	0.8054	0.2290	1.3093_n	+1.695
28.104	0.4887	9.8794	0.8082	0.3020	1.3086_n	2.005
29.101	0.4915	9.8819	0.8104	0.3644	1.3078_n	2.314
30.099	0.4942	9.8846	0.8116	0.4188	1.3068_n	2.623
Juli 1.096	0.4969	9.8874	0.8115	0.4671	1.3058_n	2.932
2.093	0.4997	9.8900	0.8102	0.5104	1.3046_n	+3.239
3.090	0.5024	9.8924	0.8079	0.5496	1.3032_n	3.545
4.088	0.5051	9.8943	0.8052	0.5855	1.3018_n	3.850

$E = +0.03$

Constanten für die Stern-Tage 1901,

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Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Juli 4.088	0.5051	9.8943	0.8052	0.5855	1.3018_n	+3.850
5.085	0.5079	9.8959	0.8025	0.6186	1.3002_n	4.155
6.082	0.5106	9.8970	0.8005	0.6492	1.2985_n	4.458
7.080	0.5133	9.8979	0.7995	0.6777	1.2967_n	4.760
8.077	0.5160	9.8988	0.7997	0.7043	1.2948_n	5.061
9.074	0.5188	9.8999	0.8011	0.7292	1.2927_n	+5.360
10.071	0.5215	9.9013	0.8032	0.7527	1.2904_n	5.658
11.069	0.5242	9.9031	0.8057	0.7749	1.2881_n	5.955
12.066	0.5270	9.9054	0.8079	0.7959	1.2856_n	6.250
13.063	0.5297	9.9080	0.8093	0.8158	1.2830_n	6.543
14.060	0.5324	9.9107	0.8096	0.8347	1.2803_n	
15.058	0.5352	9.9134	0.8086	0.8527	1.2774_n	
16.055	0.5379	9.9158	0.8065	0.8699	1.2744_n	
17.052	0.5406	9.9178	0.8036	0.8863	1.2712_n	
18.050	0.5433	9.9194	0.8003	0.9020	1.2679_n	
19.047	0.5461	9.9205	0.7973	0.9170	1.2644_n	
20.044	0.5488	9.9212	0.7951	0.9315	1.2608_n	
21.041	0.5515	9.9216	0.7940	0.9453	1.2570_n	
22.039	0.5543	9.9221	0.7942	0.9586	1.2531_n	
23.036	0.5570	9.9228	0.7955	0.9714	1.2490_n	
24.033	0.5597	9.9237	0.7974	0.9837	1.2448_n	
25.030	0.5625	9.9252	0.7995	0.9956	1.2404_n	
26.028	0.5652	9.9270	0.8012	1.0070	1.2359_n	
27.025	0.5679	9.9291	0.8020	1.0181	1.2311_n	
28.022	0.5707	9.9313	0.8016	1.0287	1.2262_n	
29.019	0.5734	9.9336	0.7999	1.0390	1.2211_n	
30.017	0.5761	9.9355	0.7971	1.0489	1.2159_n	
31.014	0.5789	9.9372	0.7937	1.0584	1.2104_n	
Aug. 1.011	0.5816	9.9384	0.7901	1.0677	1.2047_n	
2.009	0.5843	9.9392	0.7870	1.0766	1.1989_n	
3.006	0.5870	9.9398	0.7848	1.0853	1.1928_n	
4.003	0.5898	9.9403	0.7839	1.0937	1.1866_n	
5.000	0.5925	9.9409	0.7842	1.1018	1.1801_n	
5.998	0.5952	9.9418	0.7856	1.1096	1.1734_n	
6.995	0.5980	9.9429	0.7875	1.1172	1.1665_n	
7.992	0.6007	9.9445	0.7895	1.1245	1.1593_n	
8.989	0.6034	9.9464	0.7909	1.1316	1.1519_n	
9.987	0.6062	9.9486	0.7912	1.1384	1.1442_n	

$E = +0.04$

Constanten für die Stern-Tage 1901,

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Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Aug. 9.987	0.6062	9.9486	0.7912	1.1384	1.1442_n	
10.984	0.6089	9.9507	0.7903	1.1450	1.1363_n	
11.981	0.6116	9.9528	0.7881	1.1515	1.1280_n	
12.979	0.6143	9.9544	0.7850	1.1577	1.1195_n	
13.976	0.6171	9.9557	0.7813	1.1637	1.1108_n	
14.973	0.6198	9.9565	0.7777	1.1695	1.1017_n	
15.970	0.6225	9.9569	0.7747	1.1751	1.0923_n	
16.968	0.6253	9.9571	0.7729	1.1805	1.0825_n	
17.965	0.6280	9.9572	0.7724	1.1857	1.0724_n	
18.962	0.6307	9.9573	0.7732	1.1908	1.0619_n	
19.959	0.6335	9.9578	0.7749	1.1956	1.0510_n	
20.957	0.6362	9.9585	0.7771	1.2003	1.0398_n	
21.954	0.6389	9.9597	0.7791	1.2049	1.0281_n	
22.951	0.6417	9.9612	0.7803	1.2092	1.0159_n	
23.948	0.6444	9.9629	0.7805	1.2134	1.0032_n	
24.946	0.6471	9.9647	0.7793	1.2175	0.9901_n	
25.943	0.6498	9.9663	0.7770	1.2214	0.9764_n	
26.940	0.6526	9.9676	0.7738	1.2251	0.9621_n	
27.938	0.6553	9.9685	0.7702	1.2287	0.9472_n	
28.935	0.6580	9.9691	0.7669	1.2321	0.9316_n	
29.932	0.6608	9.9694	0.7645	1.2354	0.9154_n	
30.929	0.6635	9.9696	0.7633	1.2385	0.8983_n	
31.927	0.6662	9.9697	0.7636	1.2415	0.8804_n	
Sept. 1.924	0.6690	9.9701	0.7650	1.2444	0.8616_n	
2.921	0.6717	9.9707	0.7674	1.2471	0.8419_n	
3.918	0.6744	9.9717	0.7700	1.2497	0.8210_n	−6.622
4.916	0.6771	9.9731	0.7722	1.2521	0.7990_n	6.295
5.913	0.6799	9.9748	0.7736	1.2544	0.7756_n	5.965
6.910	0.6826	9.9765	0.7738	1.2566	0.7507_n	5.633
7.908	0.6853	9.9782	0.7727	1.2586	0.7242_n	5.299
8.905	0.6881	9.9797	0.7704	1.2605	0.6958_n	−4.964
9.902	0.6908	9.9808	0.7675	1.2623	0.6653_n	4.627
10.899	0.6935	9.9814	0.7644	1.2639	0.6324_n	4.289
11.897	0.6963	9.9817	0.7618	1.2654	0.5965_n	3.949
12.894	0.6990	9.9817	0.7602	1.2668	0.5573_n	3.608
13.891	0.7017	9.9815	0.7600	1.2681	0.5141_n	−3.266
14.888	0.7045	9.9814	0.7611	1.2692	0.4658_n	2.923
15.886	0.7072	9.9815	0.7635	1.2702	0.4114_n	2.579

$E = +0\overset{s}{.}04$

Constanten für die Stern-Tage 1901,

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Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Sept. 15.886	0.7072	9.9815	0.7635	1.2702	0.4114_n	−2.579
16.883	0.7099	9.9818	0.7665	1.2711	0.3489_n	2.233
17.880	0.7126	9.9826	0.7697	1.2718	0.2758_n	1.887
18.877	0.7154	9.9837	0.7723	1.2724	0.1876_n	1.540
19.875	0.7181	9.9851	0.7739	1.2729	0.0765_n	1.193
20.872	0.7208	9.9866	0.7743	1.2733	9.9268_n	−0.845
21.869	0.7236	9.9880	0.7734	1.2735	9.6958_n	0.496
22.867	0.7263	9.9892	0.7715	1.2737	9.1689_n	−0.148
23.864	0.7290	9.9901	0.7691	1.2737	9.3042	+0.201
24.861	0.7318	9.9906	0.7667	1.2735	9.7409	0.551
25.858	0.7345	9.9908	0.7650	1.2733	9.9542	+0.900
26.856	0.7372	9.9909	0.7644	1.2729	0.0966	1.249
27.853	0.7400	9.9909	0.7653	1.2723	0.2036	1.598
28.850	0.7427	9.9911	0.7675	1.2717	0.2893	1.947
29.847	0.7454	9.9915	0.7707	1.2709	0.3608	2.295
30.845	0.7481	9.9922	0.7744	1.2700	0.4221	+2.643
Oct. 1.842	0.7509	9.9934	0.7780	1.2690	0.4757	2.990
2.839	0.7536	9.9948	0.7810	1.2678	0.5233	3.337
3.837	0.7563	9.9964	0.7828	1.2665	0.5662	3.683
4.834	0.7591	9.9980	0.7834	1.2651	0.6051	4.028
5.831	0.7618	9.9995	0.7828	1.2635	0.6406	+4.372
6.828	0.7645	0.0007	0.7814	1.2618	0.6734	4.715
7.826	0.7673	0.0015	0.7796	1.2600	0.7038	5.056
8.823	0.7700	0.0019	0.7780	1.2580	0.7321	5.397
9.820	0.7727	0.0021	0.7772	1.2559	0.7586	5.736
10.817	0.7754	0.0020	0.7777	1.2537	0.7834	+6.073
11.815	0.7782	0.0019	0.7795	1.2513	0.8068	6.409
12.812	0.7809	0.0019	0.7826	1.2487	0.8289	
13.809	0.7836	0.0022	0.7865	1.2460	0.8498	
14.806	0.7864	0.0029	0.7907	1.2432	0.8696	
15.804	0.7891	0.0040	0.7945	1.2402	0.8884	
16.801	0.7918	0.0053	0.7976	1.2371	0.9064	
17.798	0.7946	0.0068	0.7995	1.2338	0.9235	
18.796	0.7973	0.0083	0.8002	1.2303	0.9398	
19.793	0.8000	0.0097	0.7999	1.2267	0.9555	
20.790	0.8028	0.0108	0.7988	1.2229	0.9705	
21.787	0.8055	0.0116	0.7975	1.2190	0.9848	
22.785	0.8082	0.0121	0.7966	1.2149	0.9986	

$E = +0^s.03$

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Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D
Oct. 22.785	0.8082	0.0121	0.7966	1.2149	0.9986
23.782	0.8109	0.0124	0.7967	1.2106	1.0119
24.779	0.8137	0.0125	0.7979	1.2062	1.0246
25.776	0.8164	0.0128	0.8004	1.2015	1.0368
26.774	0.8191	0.0133	0.8040	1.1967	1.0486
27.771	0.8219	0.0141	0.8082	1.1917	1.0600
28.768	0.8246	0.0153	0.8125	1.1864	1.0709
29.766	0.8273	0.0168	0.8164	1.1810	1.0815
30.763	0.8301	0.0185	0.8193	1.1754	1.0916
31.760	0.8328	0.0203	0.8211	1.1696	1.1015
Nov. 1.757	0.8355	0.0221	0.8217	1.1636	1.1109
2.755	0.8382	0.0236	0.8213	1.1573	1.1201
3.752	0.8410	0.0248	0.8204	1.1508	1.1289
4.749	0.8437	0.0256	0.8195	1.1441	1.1375
5.746	0.8464	0.0261	0.8191	1.1371	1.1457
6.744	0.8492	0.0264	0.8196	1.1298	1.1537
7.741	0.8519	0.0266	0.8213	1.1224	1.1614
8.738	0.8546	0.0269	0.8241	1.1146	1.1688
9.735	0.8574	0.0273	0.8279	1.1066	1.1760
10.733	0.8601	0.0281	0.8321	1.0982	1.1830
11.730	0.8628	0.0293	0.8361	1.0896	1.1897
12.727	0.8656	0.0308	0.8396	1.0807	1.1961
13.725	0.8683	0.0325	0.8421	1.0714	1.2024
14.722	0.8710	0.0342	0.8434	1.0618	1.2084
15.719	0.8737	0.0359	0.8437	1.0518	1.2142
16.716	0.8765	0.0373	0.8431	1.0414	1.2198
17.714	0.8792	0.0385	0.8421	1.0307	1.2253
18.711	0.8819	0.0394	0.8412	1.0195	1.2305
19.708	0.8847	0.0401	0.8410	1.0079	1.2355
20.705	0.8874	0.0406	0.8417	0.9958	1.2403
21.703	0.8901	0.0411	0.8435	0.9833	1.2450
22.700	0.8929	0.0418	0.8464	0.9702	1.2494
23.697	0.8956	0.0428	0.8499	0.9566	1.2537
24.695	0.8983	0.0440	0.8538	0.9424	1.2578
25.692	0.9010	0.0456	0.8573	0.9276	1.2618
26.689	0.9038	0.0475	0.8602	0.9121	1.2656
27.686	0.9065	0.0495	0.8620	0.8959	1.2692
28.684	0.9092	0.0515	0.8627	0.8789	1.2726

$E = +0.03$

Constanten für die Stern-Tage 1901,

gültig für die Sternzeit-Epochen $8^h\ 53^m.8$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Nov. 28.684	0.9092	0.0515	0.8627	0.8789	1.2726	
29.681	0.9120	0.0533	0.8624	0.8611	1.2759	
30.678	0.9147	0.0549	0.8613	0.8423	1.2791	
Dec. 1.675	0.9174	0.0561	0.8601	0.8226	1.2821	
2.673	0.9202	0.0570	0.8591	0.8018	1.2849	+6.335
3.670	0.9229	0.0576	0.8587	0.7797	1.2876	+6.022
4.667	0.9256	0.0581	0.8593	0.7564	1.2901	5.707
5.664	0.9284	0.0586	0.8610	0.7316	1.2924	5.390
6.662	0.9311	0.0592	0.8636	0.7051	1.2947	5.071
7.659	0.9338	0.0601	0.8668	0.6767	1.2968	4.750
8.656	0.9365	0.0613	0.8701	0.6462	1.2987	+4.428
9.654	0.9393	0.0628	0.8729	0.6133	1.3005	4.105
10.651	0.9420	0.0646	0.8749	0.5775	1.3021	3.780
11.648	0.9447	0.0664	0.8759	0.5383	1.3036	3.454
12.645	0.9475	0.0682	0.8758	0.4950	1.3050	3.126
13.643	0.9502	0.0699	0.8748	0.4469	1.3062	+2.798
14.640	0.9529	0.0713	0.8732	0.3925	1.3073	2.469
15.637	0.9557	0.0725	0.8715	0.3302	1.3083	2.139
16.634	0.9584	0.0734	0.8702	0.2572	1.3091	1.808
17.632	0.9611	0.0740	0.8696	0.1692	1.3098	1.476
18.629	0.9638	0.0747	0.8700	0.0585	1.3103	+1.144
19.626	0.9666	0.0754	0.8715	9.9095	1.3107	0.812
20.624	0.9693	0.0763	0.8737	9.6806	1.3110	0.479
21.621	0.9720	0.0776	0.8763	9.1655	1.3111	+0.146
22.618	0.9748	0.0791	0.8789	9.2708_n	1.3111	−0.187
23.615	0.9775	0.0808	0.8810	9.7156_n	1.3110	−0.519
24.613	0.9802	0.0828	0.8822	9.9306_n	1.3107	0.852
25.610	0.9830	0.0848	0.8823	0.0737_n	1.3103	1.185
26.607	0.9857	0.0866	0.8813	0.1810_n	1.3097	1.517
27.604	0.9884	0.0883	0.8796	0.2669_n	1.3090	1.849
28.602	0.9911	0.0896	0.8774	0.3385_n	1.3082	−2.180
29.599	0.9939	0.0906	0.8752	0.3998_n	1.3072	2.511
30.596	0.9966	0.0914	0.8735	0.4534_n	1.3061	2.840
31.594	0.9993	0.0919	0.8727	0.5010_n	1.3048	3.169
32.591	1.0021	0.0924	0.8729	0.5437_n	1.3035	3.497
33.588	1.0048	0.0929	0.8740	0.5825_n	1.3019	−3.824
34.585	1.0075	0.0937	0.8759	0.6180_n	1.3002	4.150
35.583	1.0103	0.0947	0.8780	0.6507_n	1.2984	4.474

$E = +0.03$

Constanten für die mittleren Tage 1901,

zur Reduction von dem Mittl. Aequin. 1900.0 auf das jedesmalige wahre Aequinoctium.

12^h Mittl. Zeit	*f*	log. *g*	*G*	12^h Mittl. Zeit	*f*	log. *g*	*G*
1900 Dec. 30	+60.15"	1.42552	11° 3.8'	April 25	+72.54"	1.50471	9° 24.4'
1901 Jan. 3	60.79	1.42996	10 57.0	29	72.96	1.50738	9 31.7
7	61.42	1.43425	10 49.3	Mai 3	73.40	1.51016	9 38.9
11	62.03	1.43838	10 40.7	7	73.86	1.51304	9 46.0
15	62.63	1.44234	10 31.4	11	74.34	1.51603	9 52.8
19	+63.21	1.44611	10 21.5	15	+74.85	1.51911	9 59.1
23	63.77	1.44970	10 11.3	19	75.38	1.52226	10 4.8
27	64.31	1.45312	10 0.9	23	75.92	1.52548	10 9.8
31	64.83	1.45636	9 50.6	27	76.48	1.52876	10 14.0
Febr. 4	65.32	1.45943	9 40.5	31	77.05	1.53208	10 17.3
8	+65.79	1.46232	9 30.8	Juni 4	+77.64	1.53543	10 19.8
12	66.23	1.46505	9 21.5	8	78.24	1.53879	10 21.4
16	66.65	1.46762	9 12.9	12	78.84	1.54215	10 22.0
20	67.05	1.47006	9 5.2	16	79.45	1.54549	10 21.6
24	67.43	1.47238	8 58.4	20	80.06	1.54880	10 20.2
28	+67.79	1.47460	8 52.6	24	+80.67	1.55207	10 17.9
März 4	68.14	1.47672	8 47.9	28	81.29	1.55528	10 14.9
8	68.47	1.47877	8 44.4	Juli 2	81.90	1.55842	10 11.0
12	68.79	1.48078	8 42.1	6	82.49	1.56149	10 6.3
16	69.11	1.48276	8 41.0	10	83.08	1.56447	10 1.0
20	+69.42	1.48473	8 41.2	14	+83.66	1.56735	9 55.1
24	69.73	1.48670	8 42.5	18	84.22	1.57012	9 48.7
28	70.05	1.48870	8 44.9	22	84.77	1.57278	9 41.9
April 1	70.37	1.49075	8 48.4	26	85.30	1.57534	9 34.8
5	70.70	1.49286	8 52.8	30	85.81	1.57779	9 27.6
9	+71.03	1.49504	8 58.0	Aug. 3	+86.31	1.58012	9 20.4
13	71.38	1.49731	9 4.0	7	86.78	1.58233	9 13.3
17	71.75	1.49967	9 10.5	11	87.22	1.58443	9 6.3
21	72.14	1.50214	9 17.3	15	87.65	1.58643	8 59.6
25	72.54	1.50471	9 24.4	19	88.06	1.58833	8 53.3

Constanten für die mittleren Tage 1901,

zur Reduction von dem Mittl. Aequin. 1900.0 auf das jedesmalige wahre Aequinoctium.

12ʰ Mittl. Zeit	f	log. g	G	12ʰ Mittl. Zeit	f	log. g	G
Aug. 19	+88.06″	1.58833	8° 53.3′	Oct. 30	+ 94.20″	1.61778	9° 1.4′
23	88.45	1.59014	8 47.5	Nov. 3	94.63	1.61988	9 7.1
27	88.82	1.59186	8 42.2	7	95.08	1.62208	9 12.8
31	89.18	1.59351	8 37.6	11	95.56	1.62438	9 18.3
Sept. 4	89.52	1.59509	8 33.8	15	96.06	1.62677	9 23.4
8	+89.85	1.59663	8 30.7	19	+ 96.58	1.62923	9 28.1
12	90.17	1.59813	8 28.4	23	97.13	1.63176	9 32.3
16	90.48	1.59959	8 27.0	27	97.70	1.63436	9 35.9
20	90.78	1.60104	8 26.5	Dec. 1	98.29	1.63701	9 38.8
24	91.09	1.60250	8 26.9	5	98.89	1.63971	9 40.9
28	+91.39	1.60397	8 28.1	9	+ 99.50	1.64243	9 42.2
Oct. 2	91.70	1.60547	8 30.1	13	100.12	1.64515	9 42.6
6	92.01	1.60701	8 32.9	17	100.75	1.64786	9 42.2
10	92.34	1.60861	8 36.4	21	101.39	1.65056	9 40.9
14	92.68	1.61028	8 40.5	25	102.03	1.65323	9 38.7
18	+93.03	1.61202	8 45.2	29	+102.66	1.65586	9 35.8
22	93.40	1.61385	8 50.3	33	103.28	1.65843	9 32.1
26	93.79	1.61577	8 55.8	37	103.90	1.66092	9 27.8
30	94.20	1.61778	9 1.4	41	104.51	1.66331	9 23.0

Red. in $\alpha = f + g \sin (G + \alpha) \operatorname{tg} \delta$

Red. in $\delta = g \cos (G + \alpha)$

I. Totale Sonnen-Finsternifs 1901 Mai 17,

unsichtbar in Berlin.

Elemente der Finsternifs

nach wahrer Berliner Zeit τ.

	$14^h 40^m 18^s.7$	$15^h 52^m 18^s.6$	$17^h 4^m 18^s.5$	$18^h 16^m 18^s.4$	$19^h 28^m 18^s.3$
τ	220°.0777	238°.0774	256°.0770	274°.0766	292°.0763
λ☾	54° 7′ 32″.74	54° 52′ 37″.95	55° 37′ 42″.02	56° 22′ 44″.93	57° 7′ 46″.67
β☾	− 0 8 35.60	− 0 12 46.20	− 0 16 56.57	− 0 21 6.65	− 0 25 16.38
π☾	1 1 1.04	1 1 0.28	1 0 59.48	1 0 58.64	1 0 57.76
Δα′☉	− 0 0 19.85	− 0 0 13.50	− 0 0 7.15	− 0 0 0.79	+ 0 0 5.57
δ′☉	+19 21 48.4	+19 22 28.0	+19 23 7.5	+19 23 47.0	+19 24 26.4
N'	82 10 7.5	82 10 57.1	82 11 46.2	82 12 34.8	82 13 22.8
γ	−0.363239	−0.363209	−0.363176	−0.363140	−0.363102
u'_a	+0.532655	+0.532814	+0.532936	+0.533021	+0.533070
u'_i	+0.013683	+0.013525	+0.013404	+0.013319	+0.013270
log sin f_a	7.664699	7.664695	7.664691	7.664687	7.664682
log sin f_i	7.662528_n	7.662524_n	7.662520_n	7.662516_n	7.662512_n
log n	9.763448	9.763509	9.763551	9.763575	9.763579
μ	277°.8195	277°.8168	277°.8150	277°.8142	277°.8144
k	82° 36′ 51″.4	82° 37′ 40″.0	82° 38′ 28″.0	82° 39′ 15″.5	82° 40′ 2″.6
g	20 49 50.3	20 50 8.9	20 50 27.8	20 50 46.9	20 51 6.1
K	87 23 20.4	87 23 32.0	87 23 43.5	87 23 54.8	87 24 5.9
G	67 28 12.7	67 31 2.5	67 33 50.9	67 36 37.8	67 39 23.2

	Mittl. Zeit Berlin	O. L. Gr.	Breite
Beginn der Finsternifs überhaupt . .	$15^h 53^m.6$	50° 45′	−20° 36′
Beginn der totalen Finsternifs . . .	16 49.8	40 8	−27 17
Beginn der centralen Finsternifs . .	16 51.3	39 37	−27 39
Centrale Finsternifs im wahren Mittag	18 22.4	96 52	− 2 8
Ende der centralen Finsternifs . . .	20 3.9	157 27	−12 59
Ende der totalen Finsternifs . . .	20 5.4	157 12	−12 42
Ende der Finsternifs überhaupt . .	21 1.6	145 52	− 5 51

Grenzcurven für die Sichtbarkeit der Finsternifs.

Nördl. Grenze		Oestl. Grenze		Südl. Grenze		Westl. Grenze	
O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.
28° 9′	+ 1° 25′	168° 25′	+16° 21′	147° 15′	−51° 40′	61° 40′	−64° 17′
42 41	7 7	171 58	11 49	132 27	46 16	44 57	56 46
54 29	12 39	172 53	+ 4 10	123 9	43 53	34 42	46 27
64 57	17 57	172 32	− 2 35	114 53	42 57	30 4	38 26
74 40	22 39	171 54	7 36	107 13	43 27	27 48	32 58
84 10	26 25	171 17	11 17	99 37	45 22	26 33	29 11
93 48	29 2	170 39	14 31	91 29	48 40	25 40	25 59
103 46	30 22	169 46	18 23	82 22	53 17	24 50	22 20
114 6	30 23	168 13	23 59	71 52	58 59	24 1	17 22
124 52	29 7	165 12	32 18	61 40	−64 17	23 31	10 38
136 17	26 38	159 0	43 24			24 30	− 3 4
148 35	22 59	147 15	−51 40			28 9	+ 1 25
168 25	+16 21						

Curve der centralen Verfinsterung.

Mittl. Berl. Zeit	O. L. Gr.	Br.	Dauer der totalen Verfinsterung
16h 51m.3	39° 37′	−27° 39′	
16 52.7	49 18	23 57	3m 17s
17 0.3	61 23	18 33	3 58
17 14.5	71 52	13 19	4 45
17 34.0	80 59	8 37	5 33
17 57.2	89 9	4 49	6 13
18 22.4	96 52	2 8	6 34
18 47.7	104 33	0 42	6 29
19 11.4	112 37	0 34	5 59
19 32.2	121 25	1 44	5 13
19 48.7	131 17	4 8	4 24
19 59.6	142 34	7 45	3 37
20 3.9	157 27	−12 59	

Die Finsternifs wird demnach in der östlichen Hälfte Südafrikas, in Vorder- und Hinterindien, auf den ostindischen Inseln, in Polynesien, Australien und im indischen Ocean zu sehen sein.

II. Partielle Mond-Finsternifs 1901 Oct. 27,

theilweise sichtbar in Berlin.

Elemente der Finsternifs

nach mittlerer Berliner Zeit.

☍ in AR	Oct. 27	$4^h 32^m 40^s.7$
☾ AR.		2 5 10.33
☾ Decl.		$+13^\circ 38' 55''.9$
⊙ »		−12 41 51.1
☾ stündliche Bewegung in AR. .		37 57.8
⊙ » » » » .		2 24.3
☾ » » » Decl. .		+9 39.3
⊙ » » » » .		−0 50.9
☾ Aequatorial-Horizontal-Parallaxe		61 20.33
⊙ » » »		8.86
☾ Halbmesser		16 42.91
⊙ »		16 6.03

Anfang der Finsternifs	Oct. 27	$3^h 18^m.7$	mittl. Berl. Zt.
Mitte der Finsternifs		4 9.0	» » »
Ende der Finsternifs		4 59.3	» » »

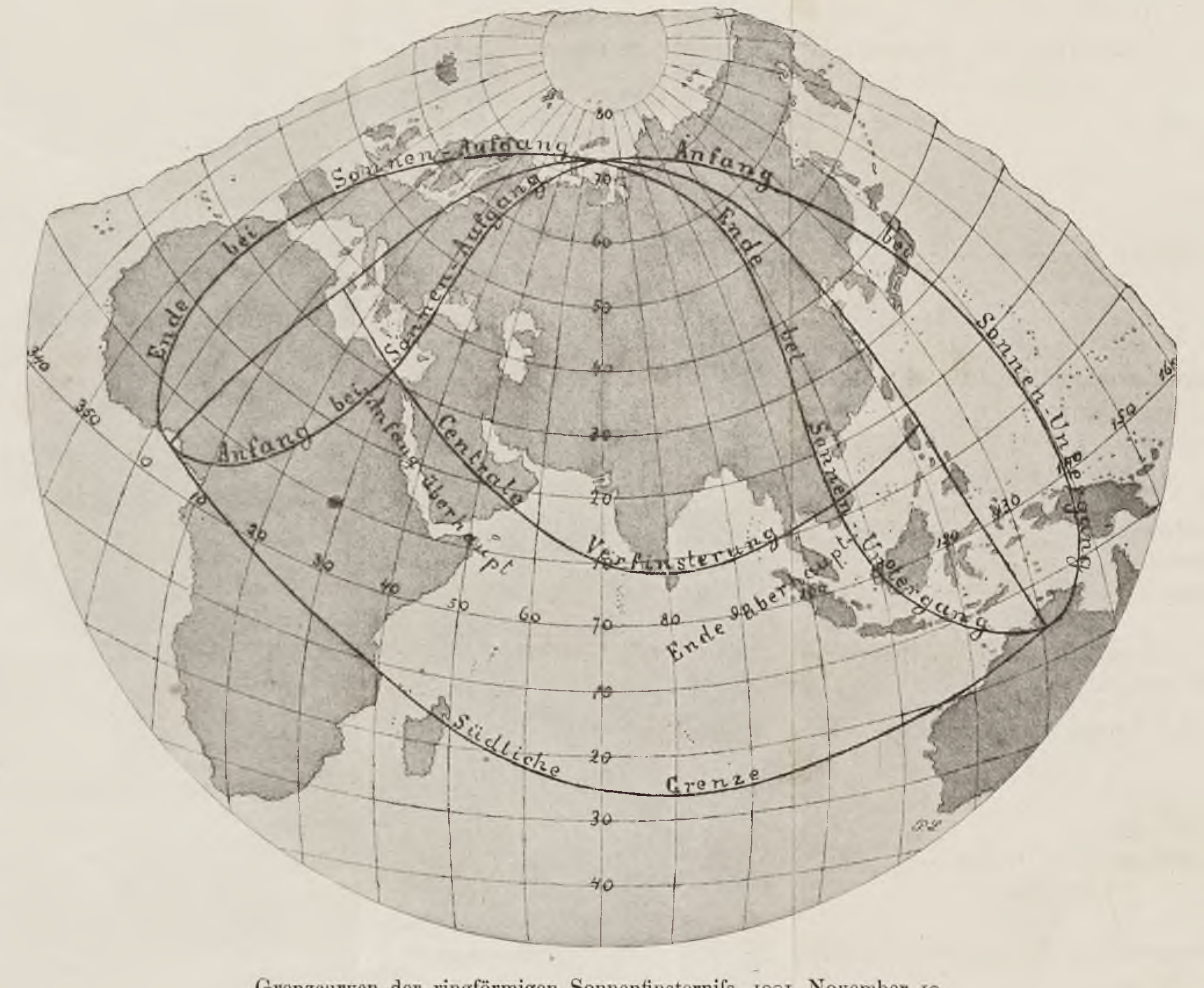
Der Mond steht um diese Zeiten im Zenith der Orte, deren geographische Lage bezüglich ist:

$138^\circ 58'$ östl. Länge von Greenwich	$13^\circ 27'$ nördl. Br.
126 54 » » » »	13 35 » »
114 49 » » » »	13 43 » »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 137°
» » Austritts » » » = 194

Gröfse der Verfinsterung in Theilen des Monddurchmessers = 0.227

Die Finsternifs wird demnach in der nordwestlichen Hälfte Nordamerikas, in der westlichen Hälfte des grofsen Oceans, in Australien, Asien, im indischen Ocean, im östlichen Afrika, in dem gröfseren östlichen Theile Europas und in den nördlichen Polargegenden sichtbar sein. In Berlin geht der Mond erst um $4^h 32^m$ auf.



Grenzcurven der ringförmigen Sonnenfinsternifs 1901 November 10.

III. Ringförmige Sonnen-Finsternifs 1901 Nov. 10, sichtbar in Berlin.

Elemente der Finsternifs

nach wahrer Berliner Zeit τ.

	16ʰ 50ᵐ 21ˢ.2	18ʰ 2ᵐ 20ˢ.9	19ʰ 14ᵐ 20ˢ.6	20ʰ 26ᵐ 20ˢ.3	21ʰ 38ᵐ 19ˢ.9
τ	252°.5884	270°.5871	288°.5858	306°.5844	324°.5831
λ☾	226° 19′ 0″.54	226 54 21.56	227 29 42.54	228 5 3.48	228 40 24.38
β☾	+ 0 15 6.57	+ 0 18 23.03	+ 0 21 39.35	+ 0 24 55.53	+ 0 28 11.57
π☾	0 53 56.14	0 53 56.07	0 53 56.00	0 53 55.94	0 53 55.90
Δα′☉	— 0 0 16.54	— 0 0 11.01	— 0 0 5.49	+ 0 0 0.04	+ 0 0 5.57
δ′☉	—17 13 16.9	—17 14 6.3	—17 14 55.7	—17 15 45.1	—17 16 34.4
N'	100 22 56.8	100 22 14.2	100 21 30.7	100 20 46.3	100 20 1.1
γ	+0.475902	+0.475869	+0.475839	+0.475812	+0.475787
u'_a	+0.573560	+0.573642	+0.573697	+0.573724	+0.573722
u'_i	—0.027018	—0.027099	—0.027153	—0.027180	—0.027178
log sin f_a	7.674409	7.674414	7.674419	7.674424	7.674429
log sin f_i	7.672238_n	7.672243_n	7.672248_n	7.672253_n	7.672258_n
log n	9.701904	9.701948	9.701980	9.701998	9.702001
μ	309°.4883	309°.4868	309°.4859	309°.4856	309°.4860
k	99° 54′ 43″.8	99° 54′ 0″.5	99 53 16.3	99 52 31.3	99 51 45.6
g	20 1 38.7	20 1 59.4	20 2 19.6	20 2 39.4	20 2 58.8
K	86 53 42.3	86 53 46.7	86 53 51.4	86 53 56.3	86 54 1.6
G	238 14 56.3	238 17 55.1	238 20 56.1	238 23 59.1	238 27 4.1

	Mittl. Zeit Berlin	O. L. Gr.	Breite
Beginn der Finsternifs überhaupt . .	17ʰ 23ᵐ.3	26° 42′	+26° 58′
Beginn der ringförmigen Finsternifs .	18 33.7	13 9	+36 27
Beginn der centralen Finsternifs . .	18 37.3	12 56	+37 8
Centrale Finsternifs im wahren Mittag	20 11.6	66 30	+11 46
Ende der centralen Finsternifs . . .	22 6.8	122 42	+17 30
Ende der ringförmigen Finsternifs . .	22 10.4	122 19	+16 48
Ende der Finsternifs überhaupt . . .	23 20.7	107 51	+ 7 11

Grenzcurven für die Sichtbarkeit der Finsterniſs.

Westl. Grenze O. L. Gr.	Westl. Grenze Br.	Südl. Grenze O. L. Gr.	Südl. Grenze Br.	Oestl. Grenze O. L. Gr.	Oestl. Grenze Br.
82° 25'	+71° 31'	2° 7'	+5° 3'	132° 2'	−14° 49'
62 49	73 2	14 32	+0 42	136 52	10 25
43 27	72 5	25 50	−4 23	139 13	−2 38
26 29	68 47	35 24	9 32	139 58	+6 50
13 54	63 24	43 55	14 28	139 37	16 48
5 21	56 16	52 9	18 52	138 28	26 30
359 48	47 46	60 42	22 22	136 38	35 28
356 24	38 16	69 50	24 40	134 8	43 28
354 45	28 17	79 34	25 34	130 56	50 22
354 46	18 36	89 55	25 4	127 3	56 7
356 44	10 23	101 2	23 18	122 39	60 42
2 7	+5 3	113 13	20 22	118 24	63 53
		132 2	−14 49	103 7	70 13
				77 42	+73 5

Die nördliche Grenzcurve ist imaginär.

Curve der centralen Verfinsterung.

Mittl. Berl. Zeit	O. L. Gr.	Br.	Dauer der ringförmigen Verfinsterung
18h 37.3m	12° 56'	+37° 8'	
18 38.0	19 54	34 46	7m 9s
18 44.4	32 19	29 46	7 46
18 57.9	42 57	24 33	8 33
19 18.0	51 54	19 34	9 25
19 43.3	59 34	15 12	10 15
20 11.6	66 30	11 46	10 49
20 40.5	73 16	9 29	10 52
21 7.9	80 26	8 29	10 20
21 31.8	88 28	8 48	9 27
21 50.4	97 48	10 25	8 30
22 2.4	108 48	13 16	7 38
22 6.7	122 42	+17 30	

Die Finsterniſs wird daher in der nördlichen Hälfte Afrikas mit Ausnahme der westlichen Gebiete, in Europa mit Ausnahme Norwegens, Groſsbritanniens, der Nordwestspitze Frankreichs und der westlichen Hälfte Spaniens, in Asien mit Ausnahme des Nordostens und im indischen Ocean sichtbar sein.

In der folgenden Uebersicht über die näheren Umstände der Finsterniſs im mittleren Europa ist als Einheit von $\Delta\lambda$ die Zeitminute und die östliche Richtung positiv zu nehmen. Die Phase ist in Theilen des Sonnendurchmessers ausgedrückt. Diejenigen Zeiten der gröſsten Phase, welche der bequemeren Interpolation wegen angegeben sind, obwohl sie vor Sonnen-Aufgang liegen, sind durch ein * bezeichnet.

Polhöhe	Mittlere Ortszeit der größten Phase			Größte Phase	Mittlere Ortszeit des Austrittes			Positions-Winkel
	Länge von Berlin: — 30m							
+40°				0.94	19h 22.5	8	+ 1.14m Δλ	109.7°
41				0.91	23.3	8	+ 1.13 »	111.1
42				0.89	24.1	8	+ 1.13 »	112.5
43				0.86	24.9	7	+ 1.12 »	113.8
44				0.84	25.6	8	+ 1.12 »	115.2
45				0.81	26.4	7	+ 1.11 »	116.5
46				0.79	27.1	8	+ 1.11 »	117.8
47				0.76	27.9	7	+ 1.10 »	119.2
48	vor			0.74	28.6	7	+ 1.10 »	120.5
49	Sonnen-Aufgang			0.72	29.3	8	+ 1.09 »	121.7
50				0.70	30.1	7	+ 1.09 »	123.0
51				0.67	30.8	7	+ 1.08 »	124.2
52				0.65	31.5	8	+ 1.08 »	125.5
53				0.63	32.3	7	+ 1.08 »	126.7
54				0.61	33.0	8	+ 1.07 »	127.9
55				0.59	33.8	7	+ 1.07 »	129.1
56				0.57	34.5	7	+ 1.06 »	130.3
57				0.55	35.2	8	+ 1.06 »	131.4
58				0.53	36.0		+ 1.06 »	132.6
	Länge von Berlin: — 10m							
+40°	18h 29.2m*	9	+ 1.04m Δλ	0.90	19h 45.7m	6	+ 1.18m Δλ	112.4°
41	30.1*	9	+ 1.04 »	0.87	46.3	7	+ 1.17 »	113.7
42	31.0*	9	+ 1.04 »	0.85	47.0	7	+ 1.16 »	115.1
43	31.9*	10	+ 1.04 »	0.83	47.7	6	+ 1.16 »	116.4
44	32.9*	10	+ 1.04 »	0.80	48.3	7	+ 1.15 »	117.7
45	33.9*	11	+ 1.04 »	0.78	49.0	6	+ 1.15 »	119.0
46	35.0*	11	+ 1.04 »	0.76	49.6	6	+ 1.14 »	120.3
47	36.1*	12	+ 1.04 »	0.73	50.2	7	+ 1.13 »	121.6
48	37.3*		+ 1.04 »	0.71	50.9	6	+ 1.13 »	122.9
49				0.69	51.5	6	+ 1.12 »	124.1
50				0.67	52.1	7	+ 1.12 »	125.3
51				0.64	52.8	6	+ 1.11 »	126.5
52	vor			0.62	53.4	7	+ 1.11 »	127.7
53	Sonnen-Aufgang			0.60	54.1	6	+ 1.10 »	128.9
54				0.58	54.7	6	+ 1.10 »	130.1
55				0.56	55.3	7	+ 1.09 »	131.2
56				0.54	56.0	7	+ 1.09 »	132.4
57				0.52	56.7	6	+ 1.08 »	133.5
58				0.50	57.3		+ 1.08 »	134.6
	Berlin							
—	—			0.60	20h 4.8m		+ 1.12m Δλ	129.5°

Polhöhe	Mittlere Ortszeit der größten Phase			Größte Phase	Mittlere Ortszeit des Austrittes			Positions-Winkel
	Länge von Berlin: + 10m							
+40°	18h 50.3m	9	+ 1.08m Δλ	0.86	20h 9.6m	5	+ 1.22m Δλ	115.2°
41	51.2	9	+ 1.08 »	0.84	10.1	5	+ 1.21 »	116.5
42	52.1	10	+ 1.08 »	0.81	10.6	6	+ 1.20 »	117.8
43	53.1	10	+ 1.08 »	0.79	11.2	5	+ 1.19 »	119.1
44	54.1	10	+ 1.08 »	0.77	11.7	5	+ 1.19 »	120.4
45	55.1	11	+ 1.08 »	0.74	12.2	5	+ 1.18 »	121.7
46	56.2	11	+ 1.08 »	0.72	12.7	5	+ 1.17 »	122.9
47	57.3	12	+ 1.08 »	0.70	13.2	5	+ 1.17 »	124.1
48	58.5*	12	+ 1.08 »	0.68	13.7	5	+ 1.16 »	125.4
49	18 59.7*	12	+ 1.08 »	0.65	14.2	6	+ 1.15 »	126.6
50	19 0.9*	13	+ 1.08 »	0.63	14.8	5	+ 1.15 »	127.8
51	2.2*	13	+ 1.08 »	0.61	15.3	5	+ 1.14 »	128.9
52	3.5*	14	+ 1.08 »	0.59	15.8	5	+ 1.13 »	130.1
53	4.9*	14	+ 1.08 »	0.57	16.3	5	+ 1.13 »	131.2
54	6.3*	14	+ 1.08 »	0.55	16.8	6	+ 1.12 »	132.4
55	7.7*	15	+ 1.08 »	0.53	17.4	5	+ 1.11 »	133.5
56	9.2*	15	+ 1.08 »	0.51	17.9	6	+ 1.11 »	134.6
57	10.7*	15	+ 1.08 »	0.49	18.5	6	+ 1.10 »	135.7
58	12.2*		+ 1.08 »	0.47	19.1		+ 1.10 »	136.7
	Länge von Berlin: + 30m							
+40°	19h 12.2m	9	+ 1.11m Δλ	0.82	20h 34.3m	4	+ 1.26m Δλ	118.1°
41	13.1	9	+ 1.11 »	0.79	34.7	4	+ 1.25 »	119.4
42	14.0	10	+ 1.11 »	0.77	35.1	3	+ 1.24 »	120.7
43	15.0	10	+ 1.11 »	0.75	35.4	4	+ 1.23 »	121.9
44	16.0	10	+ 1.11 »	0.72	35.8	3	+ 1.22 »	123.2
45	17.0	11	+ 1.11 »	0.70	36.1	4	+ 1.22 »	124.4
46	18.1	11	+ 1.11 »	0.68	36.5	4	+ 1.21 »	125.6
47	19.2	12	+ 1.11 »	0.66	36.9	3	+ 1.20 »	126.8
48	20.4	12	+ 1.11 »	0.64	37.2	4	+ 1.19 »	128.0
49	21.6	12	+ 1.11 »	0.62	37.6	3	+ 1.18 »	129.1
50	22.8	13	+ 1.11 »	0.60	37.9	4	+ 1.17 »	130.3
51	24.1	13	+ 1.11 »	0.58	38.3	4	+ 1.17 »	131.4
52	25.4	14	+ 1.11 »	0.56	38.7	4	+ 1.16 »	132.5
53	26.8	14	+ 1.11 »	0.54	39.1	4	+ 1.15 »	133.6
54	28.2	14	+ 1.11 »	0.52	39.5	4	+ 1.14 »	134.7
55	29.6	14	+ 1.11 »	0.50	39.9	4	+ 1.14 »	135.8
56	31.0	15	+ 1.11 »	0.48	40.3	4	+ 1.13 »	136.9
57	32.5	16	+ 1.11 »	0.46	40.7	5	+ 1.12 »	137.9
58	34.1		+ 1.11 »	0.45	41.2		+ 1.12 »	138.9

Verzeichnifs von Fixsternen, welche im Jahre 1901 vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. AR. 1901.0	Mittl. Decl. 1901.0
			h m s	° ′ ″
1	δ Piscium	4.3	0 43 32.67	+ 7 2 46.5
2	ε Piscium	4.0	0 57 48.22	+ 7 21 26.3
3	π Arietis	5.5	2 43 45.93	+17 3 9.2
4	δ Arietis	4.1	3 5 57.95	+19 21 8.6
5	13 Tauri	5.5	3 36 36.21	+19 23 0.1
6	ω² Tauri	5.5	4 11 27.47	+20 20 5.9
7	κ Tauri	4.6	4 19 27.95	+22 4 2.0
8	ε Tauri	3.6	4 22 50.06	+18 57 39.5
9	*i* Tauri	5.4	4 45 34.84	+18 40 16.8
10	ι Tauri	5.0	4 57 10.62	+21 26 55.2
11	*l* Tauri	5.5	5 1 56.84	+20 17 14.9
12	ζ Tauri	3.3	5 31 43.65	+21 4 56.0
13	χ¹ Orionis	4.6	5 48 31.16	+20 15 28.2
14	χ⁴ Orionis	5.0	5 58 2.37	+20 8 26.7
15	ν Geminorum	4.6	6 23 5.04	+20 16 29.8
16	26 Geminorum	5.5	6 36 38.44	+17 44 31.9
17	λ Geminorum	3.8	7 12 24.24	+16 43 9.1
18	68 Geminorum	5.5	7 27 57.52	+16 2 22.2
19	α Cancri	4.0	8 53 4.39	+12 14 28.0
20	κ Cancri	5.0	9 2 23.11	+11 4 0.0
21	π Leonis	5.0	9 54 58.92	+ 8 31 9.5
22	*p*⁵ Leonis	5.3	11 8 41.51	+ 0 28 9.0
23	*e* Leonis	5.0	11 25 15.36	− 2 27 25.2
24	υ Leonis	4.8	11 31 52.75	− 0 16 37.7
25	χ Virginis	5.0	12 34 8.12	− 7 27 2.4
26	ψ Virginis	5.0	12 49 12.19	− 9 0 4.2
27	α Virginis	1	13 19 58.54	−10 38 40.9
28	α Librae	2.3	14 45 23.97	−15 37 50.6
29	ι Librae	4.6	15 6 34.58	−19 25 2.6
30	κ Librae	5.0	15 36 14.38	−19 21 28.3

Verzeichnifs von Fixsternen, welche im Jahre 1901 vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. AR. 1901.0	Mittl. Decl. 1901.0
			h m s	° ′ ″
31	β¹ Scorpii	2.0	15 59 40.70	−19 32 5.5
32	ω¹ Scorpii	4.3	16 1 0.82	−20 24 5.5
33	ω² Scorpii	5.0	16 1 35.80	−20 36 5.5
34	ν Scorpii	4.0	16 6 14.35	−19 14 12.8
35	ψ Ophiuchi	5.0	16 18 18.50	−19 48 20.9
36	ω Ophiuchi	5.0	16 26 15.99	−21 15 16.8
37	ξ Ophiuchi	5.0	17 15 4.16	−21 0 23.9
38	58 Ophiuchi	5.0	17 37 29.81	−21 38 6.8
39	μ Sagittarii	4.0	18 7 50.54	−21 5 6.3
40	15 Sagittarii	5.0	18 9 18.51	−20 45 29.8
41	21 Sagittarii	5.0	18 19 27.21	−20 35 44.7
42	*d* Sagittarii	5.0	19 11 50.55	−19 7 44.8
43	ρ¹ Sagittarii	4.0	19 15 55.85	−18 2 1.6
44	*e*² Sagittarii	5.0	19 36 51.34	−16 21 22.5
45	*g* Sagittarii	5.5	19 52 20.13	−15 45 15.4
46	β Capricorni . . .	3.0	20 15 26.96	−15 5 39.1
47	ν Aquarii	4.3	21 4 12.10	−11 46 21.9
48	ξ Aquarii	4.9	21 32 28.89	− 8 17 54.3
49	*c*¹ Capricorni . . .	4.8	21 39 43.52	− 9 32 13.9
50	30 Aquarii	5.4	21 58 3.99	− 7 0 3.5
51	χ Aquarii	5.2	22 32 37.74	− 4 44 19.6
52	χ Piscium	5.3	23 21 51.40	+ 0 42 48.6
53	λ Piscium	5.0	23 36 59.62	+ 1 14 6.6

Elemente der Stern-Bedeckungen 1901.

Nr.	Zeit der Conj. in AR.	q	p'	q'	Nr.	Zeit der Conj. in AR.	q	p'	q'
	Jan.					Jan.			
	d h m					d h m			
5	1 2 56.9	+0.4387	5920	+0864	12	30 7 59.8	+0.1414	5852	−0184
6	1 16 56.5	+0.4645	5947	+0550	♅	30 13 58.0	−1.1484	5845	−0316
7	1 20 8.6	−1.1349	5950	+0476	13	30 14 57.3	+0.8169	5835	−0338
10	2 11 12.0	−0.0550	5951	+0121	14	30 18 55.2	+0.7889	5823	−0424
11	2 13 6.4	+1.1510	5953	+0076	15	31 5 26.4	+0.0872	5786	−0645
12	3 1 3.2	+0.2624	5932	−0204					
13	3 7 50.4	+0.9186	5914	−0362		Febr.			
♆	3 8 0.1	−1.0646	5925	−0365	19	3 0 43.4	+0.3123	5443	−1697
14	3 11 42.6	+0.8834	5898	−0449	20	3 5 12.6	+0.7997	5420	−1740
15	3 21 59.1	+0.1696	5859	−0673	21	4 7 15.9	−1.2591	5296	−1925
19	6 16 19.2	+0.2466	5447	−1721	22	5 21 31.3	−0.0934	5175	−2008
20	6 20 47.3	+0.7219	5418	−1762	23	6 6 18.5	+1.3566	5163	−1998
22	9 13 20.6	−0.3067	5140	−2011	25	7 19 1.9	−0.2603	5155	−1855
23	9 22 12.0	+1.1290	5128	−2000	26	8 3 1.5	−0.0072	5164	−1803
25	11 11 9.7	−0.5366	5130	−1856	27	8 19 12.6	−1.0051	5196	−1674
26	11 19 10.8	−0.2903	5145	−1804	29	11 0 58.5	+1.2624	5388	−1033
27	12 11 22.5	−1.2966	5189	−1677	30	11 15 10.8	−0.1175	5449	−0810
29	14 16 42.3	+0.9685	5428	−1037	31	12 2 10.4	−0.7119	5498	−0623
30	15 6 41.1	−0.3934	5501	−0812	32	12 2 47.6	+0.1941	5501	−0612
31	15 17 29.1	−0.9738	5559	−0622	33	12 3 3.9	+0.3955	5502	−0608
32	15 18 5.6	−0.0727	5560	−0611	34	12 5 13.0	−1.2169	5513	−0570
33	15 18 21.6	+0.1276	5562	−0607	35	12 10 46.6	−0.8850	5537	−0469
35	16 1 55.7	−1.1362	5599	−0465	36	12 14 25.0	+0.5282	5553	−0402
36	16 5 30.0	+0.2723	5615	−0396	37	13 12 20.9	−0.1627	5637	+0023
37	17 3 0.8	−0.3841	5702	+0037	38	13 22 14.0	+0.6285	5669	+0220
38	17 12 43.4	+0.4186	5730	+0241	39	14 11 27.9	+0.5130	5704	+0493
39	18 1 44.5	+0.3276	5757	+0516	40	14 12 6.1	+0.1992	5706	+0506
40	18 2 22.1	+0.0164	5756	+0529	41	14 16 29.6	+0.2688	5714	+0596
50	22 5 10.9	−0.0243	5645	+2075	42	15 15 1.8	+0.5831	5745	+1046
51	22 20 35.9	+0.9603	5625	+2158	43	15 16 46.9	−0.3684	5746	+1079
52	23 18 40.2	+0.2783	5613	+2186	44	16 1 44.9	−1.0575	5749	+1247
53	24 1 27.4	+1.2331	5616	+2174	45	16 8 22.8	−0.8067	5749	+1366
3	27 10 48.8	+0.2431	5798	+1297	3	23 16 31.8	−0.0343	5858	+1306
4	27 20 4.8	−0.9799	5823	+1122	4	24 1 38.5	−1.2477	5869	+1130
5	28 8 45.5	+0.2494	5850	+0865	5	24 14 9.7	−0.0279	5882	+0871
6	28 23 4.2	+0.2940	5870	+0556	6	25 4 22.7	+0.0222	5879	+0563
10	29 17 47.2	−0.2033	5872	+0135	10	25 23 5.7	−0.4609	5854	+0145
11	29 19 44.5	+1.0190	5870	+0091	11	26 1 3.5	+0.7618	5849	+0101

Elemente der Stern-Bedeckungen 1901.

Nr.	Zeit der Conj. in AR.	q	p'	q'
	Febr.			
	d h m			
12	26 13 23.5	—0.1024	5819	—0171
13	26 20 24.9	+0.5827	5798	—0322
14	27 0 25.4	+0.5602	5783	—0407
15	27 11 4.5	—0.1286	5740	—0624
	März			
19	2 7 25.2	+0.2332	5405	—1660
20	2 11 58.0	+0.7346	5383	—1703
21	3 14 18.5	—1.2685	5278	—1893
22	5 4 44.7	+0.0023	5185	—1987
25	7 2 11.3	—0.0629	5180	—1844
26	7 10 9.5	+0.2054	5187	—1792
27	8 2 18.5	—0.7677	5217	—1665
30	10 22 36.0	+0.1782	5426	—0802
31	11 9 45.2	—0.4199	5464	—0617
32	11 10 23.1	+0.4934	5467	—0606
33	11 10 39.6	+0.6964	5469	—0602
34	11 12 50.8	—0.9294	5476	—0564
35	11 18 30.3	—0.5957	5494	—0465
36	11 22 12.9	+0.8292	5506	—0399
37	12 20 37.6	+0.1224	5571	+0018
38	13 6 45.7	+0.9151	5596	+0213
39	13 20 20.6	+0.7862	5626	+0477
40	13 20 59.8	+0.4682	5626	+0489
41	14 1 30.5	+0.5339	5633	+0577
42	15 0 39.3	+0.8214	5665	+1016
43	15 2 27.2	—0.1433	5666	+1049
44	15 11 38.8	—0.8537	5672	+1213
45	15 18 26.3	—0.6120	5675	+1330
46	16 4 34.0	+0.1392	5681	+1495
47	17 1 53.9	+0.2651	5691	+1798
48	17 14 14.9	—0.9347	5700	+1941
49	17 17 24.5	+0.9310	5702	+1974
50	18 1 23.8	—0.0105	5710	+2045
3	23 0 38.1	—0.2400	5974	+1318
5	23 21 31.8	—0.2575	5989	+0878
6	24 11 18.1	—0.2187	5976	+0566
10	25 5 30.7	—0.7039	5931	+0145
11	25 7 25.7	+0.5029	5926	+0101

Nr.	Zeit der Conj. in AR.	q	p'	q'
	März			
	d h m			
12	25 19 29.7	—0.3524	5878	—0171
13	26 2 23.4	+0.3260	5847	—0322
14	26 6 20.0	+0.3043	5828	—0406
15	26 16 50.5	—0.3753	5770	—0621
19	29 13 5.8	+0.0492	5377	—1635
20	29 17 40.5	+0.5583	5353	—1677
	April			
22	1 10 58.2	—0.0506	5169	—1959
25	3 8 34.7	—0.0206	5186	—1826
26	3 16 33.3	+0.2638	5199	—1776
27	4 8 41.7	—0.6808	5232	—1651
30	7 4 57.2	+0.3605	5435	—0793
31	7 16 9.2	—0.2305	5466	—0608
32	7 16 47.2	+0.6873	5469	—0598
33	7 17 3.8	+0.8913	5468	—0593
34	7 19 15.8	—0.7401	5474	—0555
35	8 0 57.7	—0.4013	5487	—0457
36	8 4 42.0	+1.0338	5496	—0391
37	9 3 22.0	+0.3343	5542	+0022
38	9 13 39.8	+1.1370	5559	+0214
39	10 3 30.7	+1.0096	5571	+0473
40	10 4 10.8	+0.6883	5573	+0485
41	10 8 47.4	+0.7548	5576	+0571
42	11 8 32.2	+1.0411	5583	+0998
43	11 10 23.2	+0.0636	5584	+1030
44	11 19 51.2	—0.6612	5585	+1189
45	12 2 51.2	—0.4211	5586	+1302
46	12 13 18.2	+0.3329	5589	+1462
47	13 11 19.2	+0.4381	5596	+1757
48	14 0 3.0	—0.7937	5608	+1897
49	14 3 18.2	+1.0914	5613	+1928
50	14 11 31.1	+0.1257	5627	+2001
51	15 2 53.6	+0.9979	5658	+2100
52	16 0 27.7	+0.1639	5722	+2159
53	16 6 59.6	+1.0556	5747	+2156
6	20 20 41.4	—0.3350	6086	+0566
8	21 1 3.2	+1.2555	6078	+0461

Elemente der Stern-Bedeckungen 1901.

Nr.	Zeit der Conj. in AR.	q	p'	q'
	April			
	d h m			
10	21 14 17.9	−0.8282	6045	+0140
11	21 16 9.1	+0.3577	6038	+0096
12	22 3 49.0	−0.4923	5987	−0182
13	22 10 29.1	+0.1714	5953	−0332
14	22 14 18.1	+0.1480	5930	−0416
15	23 0 28.9	−0.5258	5867	−0634
19	25 19 15.8	−0.1054	5402	−1637
20	25 23 47.4	+0.4022	5376	−1677
22	28 16 53.8	−0.1508	5151	−1942
23	29 1 45.7	+1.3559	5145	−1936
25	30 14 38.6	−0.0696	5174	−1810
26	30 22 38.2	+0.2239	5189	−1762
	Mai			
27	1 14 48.0	−0.7028	5229	−1640
30	4 10 54.6	+0.4021	5456	−0789
31	4 22 4.0	−0.1813	5489	−0604
32	4 22 41.9	+0.7373	5492	−0593
33	4 22 58.4	+0.9416	5491	−0589
34	5 1 10.0	−0.6890	5497	−0551
35	5 6 50.5	−0.3465	5512	−0452
36	5 10 34.2	+1.0916	5520	−0388
37	6 9 11.9	+0.4038	5558	+0026
38	6 19 30.2	+1.2131	5566	+0218
39	7 9 23.9	+1.0916	5571	+0476
40	7 10 4.1	+0.7691	5570	+0488
41	7 14 42.5	+0.8375	5569	+0573
42	8 14 41.2	+1.1326	5556	+0994
43	8 16 33.7	+0.1473	5555	+1025
44	9 2 10.4	−0.5838	5546	+1181
45	9 9 18.1	−0.3418	5540	+1291
46	9 19 58.1	+0.4198	5531	+1446
47	10 18 33.0	+0.5235	5519	+1730
48	11 7 39.7	−0.7305	5522	+1864
49	11 11 1.1	+1.1822	5523	+1894
50	11 19 30.0	+0.1984	5532	+1962
51	12 11 23.7	+1.0771	5558	+2058
52	13 9 41.6	+0.2178	5623	+2116

Nr.	Zeit der Conj. in AR.	q	p'	q'
	Mai			
	d h m			
53	13 16 26.2	+1.1183	5649	+2114
1	14 21 17.8	+1.2778	5791	+1988
13	19 20 27.8	+0.1461	6042	−0338
14	20 0 10.9	+0.1222	6021	−0424
15	20 10 5.1	−0.5447	5962	−0645
19	23 2 58.0	−0.1294	5473	−1656
20	23 7 22.9	+0.3725	5442	−1696
22	25 23 26.3	−0.1634	5163	−1945
23	26 8 14.6	+1.3369	5149	−1935
25	27 21 1.4	−0.0760	5162	−1805
26	28 5 1.0	+0.2177	5177	−1756
27	28 21 11.4	−0.7064	5216	−1635
30	31 17 13.9	+0.3917	5469	−0792
	Juni			
31	1 4 20.0	−0.1921	5504	−0608
32	1 4 57.6	+0.7237	5508	−0597
33	1 5 14.1	+0.9274	5508	−0593
34	1 7 24.9	−0.6989	5514	−0555
35	1 13 3.3	−0.3589	5531	−0456
36	1 16 45.5	+1.0745	5542	−0390
37	2 15 12.6	+0.3825	5591	+0025
38	3 1 25.6	+1.1870	5602	+0217
39	3 15 12.0	+1.0614	5607	+0476
40	3 15 51.9	+0.7394	5607	+0488
41	3 20 27.9	+0.8063	5605	+0573
42	4 20 16.6	+1.0940	5583	+0995
43	4 22 8.6	+0.1083	5582	+1027
44	5 7 42.9	−0.6267	5568	+1183
45	5 14 49.5	−0.3875	5555	+1292
46	6 1 29.4	+0.3721	5541	+1445
47	7 0 10.6	+0.4702	5504	+1723
48	7 13 25.7	−0.7959	5492	+1853
49	7 16 49.7	+1.1310	5492	+1881
50	8 1 26.5	+0.1380	5489	+1945
51	8 17 39.1	+1.0251	5497	+2035
52	9 16 31.6	+0.1564	5543	+2086
53	9 23 28.3	+1.0708	5563	+2083

Elemente der Stern-Bedeckungen 1901.

Nr.	Zeit der Conj. in AR.	q	p'	q'	Nr.	Zeit der Conj. in AR.	q	p'	q'
	Juni					Juli			
	d h m					d h m			
1	11 5 16.3	+1.2448	5706	+1962	6	12 1 46.1	−0.4486	6005	+0578
3	13 7 26.0	−0.3475	5969	+1304	8	12 6 14.7	+1.1709	6013	+0476
19	19 12 2.1	−0.0333	5550	−1673	10	12 19 42.6	−0.9050	6027	+0162
20	19 16 20.8	+0.4672	5520	−1714	11	12 21 34.6	+0.2927	6026	+0118
22	22 7 3.0	−0.0335	5204	−1959	12	13 9 15.4	−0.5321	6016	−0156
25	24 4 8.6	+0.0506	5167	−1810	21	18 2 32.6	−1.2363	5413	−1891
26	24 12 6.0	+0.3405	5179	−1761	22	19 15 26.0	+0.1812	5255	−1969
27	25 4 13.9	−0.5878	5209	−1637	25	21 11 56.8	+0.2928	5195	−1818
28	26 23 39.2	−1.2253	5357	−1163	26	21 19 50.2	+0.5828	5199	−1766
30	28 0 20.1	+0.4517	5458	−0801	27	22 11 52.7	−0.3436	5219	−1642
31	28 11 25.9	−0.1429	5501	−0618	28	24 7 19.0	−1.0070	5340	−1166
32	28 12 3.6	+0.7701	5503	−0607	30	25 8 7.4	+0.6431	5432	−0808
33	28 12 20.0	+0.9730	5504	−0603	31	25 19 17.2	+0.0340	5472	−0627
34	28 14 30.5	−0.6520	5506	−0566	32	25 19 55.1	+0.9461	5475	−0617
35	28 20 8.4	−0.3191	5532	−0468	33	25 20 11.6	+1.1487	5478	−0612
36	28 23 50.0	+1.1063	5544	−0402	34	25 22 23.0	−0.4793	5485	−0576
37	29 22 10.8	+0.3885	5607	+0011	35	26 4 2.8	−0.1543	5505	−0479
38	30 8 19.1	+1.1764	5625	+0205	36	26 7 45.5	+1.2651	5519	−0414
39	30 21 57.6	+1.0327	5638	+0465	37	27 6 11.9	+0.5113	5589	−0005
40	30 22 37.1	+0.7112	5638	+0477	39	28 5 59.4	+1.1102	5639	+0446
	Juli				40	28 6 38.8	+0.7888	5638	+0458
					41	28 11 11.0	+0.8397	5644	+0544
41	1 3 10.0	+0.7716	5639	+0564	42	29 10 32.3	+1.0441	5658	+0974
42	2 2 40.1	+1.0262	5634	+0991	43	29 12 21.6	+0.0622	5657	+1006
43	2 4 30.4	+0.0433	5632	+1023	44	29 21 41.4	−0.6972	5654	+1166
44	2 13 56.3	−0.7007	5620	+1180	45	30 4 36.2	−0.4845	5650	+1278
45	2 20 56.4	−0.4721	5608	+1292	46	30 14 57.1	+0.2295	5640	+1437
46	3 7 26.8	+0.2695	5590	+1447	47	31 12 54.8	+0.2510	5614	+1724
47	4 5 48.8	+0.3402	5553	+1726					
48	4 18 54.8	−0.9366	5532	+1855		Aug.			
49	4 22 16.8	+0.9822	5529	+1883	48	1 1 44.4	−1.0422	5601	+1858
50	5 6 49.4	−0.0166	5520	+1948	49	1 5 2.1	+0.8530	5600	+1887
51	5 22 57.2	+0.8582	5514	+2034	50	1 13 23.5	−0.1542	5590	+1952
52	6 21 52.2	−0.0225	5533	+2077	51	2 5 10.4	+0.6832	5585	+2042
53	7 4 51.9	+0.8948	5544	+2071	52	3 3 38.0	−0.2263	5593	+2086
1	8 11 5.6	+1.0738	5632	+1940	53	3 10 30.4	+0.6761	5601	+2080
3	10 14 35.0	−0.4913	5874	+1294	1	4 16 22.2	+0.8303	5662	+1943
5	11 11 57.4	−0.5002	5966	+0880	3	6 20 0.2	−0.7318	5834	+1290

Elemente der Stern-Bedeckungen 1901.

Nr.	Zeit der Conj. in AR.	q	p'	q'	Nr.	Zeit der Conj. in AR.	q	p'	q'
	Aug.					Sept.			
	d h m					d h m			
5	7 17 43.4	−0.7242	5902	+0880	3	3 1 36.6	−0.9741	5888	+1296
6	8 7 49.7	−0.6566	5933	+0583	5	3 23 5.1	−0.9736	5928	+0883
8	8 12 24.5	+0.9839	5940	+0483	6	4 13 7.6	−0.9060	5939	+0586
10	9 2 12.1	−1.0920	5949	+0176	8	4 17 42.1	+0.7330	5939	+0486
11	9 4 7.0	+0.1206	5947	+0132	11	5 9 27.2	−0.1207	5926	+0138
12	9 16 5.6	−0.6933	5938	−0137	12	5 21 31.3	−0.9272	5904	−0126
13	9 22 52.6	+0.0054	5926	−0287	13	6 4 22.6	−0.2204	5885	−0274
14	10 2 44.2	−0.0018	5916	−0372	14	6 8 17.0	−0.2237	5875	−0358
15	10 12 57.6	−0.6321	5887	−0590	15	6 18 38.6	−0.8456	5835	−0572
22	15 23 47.2	+0.3627	5290	−1963	17	7 15 30.4	+1.2255	5749	−0966
24	16 11 39.8	−1.1575	5264	−1949	18	7 22 14.3	+1.2464	5718	−1082
25	17 19 55.7	+0.5453	5230	−1817	19	9 12 37.0	+0.0167	5526	−1602
26	18 3 45.6	+0.8440	5230	−1766	20	9 16 59.2	+0.5498	5504	−1647
27	18 19 42.2	−0.0674	5242	−1641	26	14 11 16.0	+1.0082	5252	−1757
28	20 15 6.7	−0.7196	5332	−1165	27	15 3 9.8	+0.1223	5267	−1633
30	21 16 4.7	+0.9250	5408	−0809	♂	16 16 25.1	+0.2096	5035	−1134
31	22 3 21.0	+0.3069	5443	−0630	28	16 22 30.8	−0.4816	5343	−1158
32	22 3 59.3	+1.2212	5445	−0620	30	17 23 34.7	+1.1829	5398	−0802
34	22 6 28.7	−0.2108	5452	−0579	31	18 10 56.3	+0.5654	5425	−0626
35	22 12 12.4	+0.1105	5471	−0484	34	18 14 5.8	+0.0461	5434	−0574
37	23 14 41.3	+0.7497	5545	−0017	35	18 19 53.2	+0.3694	5444	−0480
40	24 15 26.5	+0.9911	5598	+0440	37	19 22 44.7	+1.0093	5498	−0020
41	24 20 1.7	+1.0348	5605	+0524	40	20 23 58.0	+1.2405	5538	+0428
42	25 19 35.0	+1.1941	5635	+0950	43	22 6 34.4	+0.4215	5566	+0959
43	25 21 24.9	+0.2073	5634	+0982	44	22 16 8.2	−0.3752	5576	+1116
44	26 6 47.0	−0.5716	5639	+1141	45	22 23 11.9	−0.1856	5580	+1225
45	26 13 42.6	−0.3737	5641	+1255	46	23 9 43.7	+0.4925	5587	+1386
46	27 0 3.0	+0.3156	5645	+1415	47	24 7 52.1	+0.4203	5604	+1678
47	27 21 52.6	+0.2831	5645	+1709	48	24 20 39.4	−0.9252	5619	+1816
48	28 10 32.9	−1.0342	5644	+1845	49	24 23 55.4	+0.9445	5624	+1848
49	28 13 47.7	+0.8394	5645	+1876	50	25 8 10.4	−0.0952	5634	+1920
50	28 22 0.8	−0.1816	5645	+1946	51	25 23 37.6	+0.6585	5663	+2023
51	29 13 28.8	+0.6080	5654	+2042	52	26 21 20.9	−0.3413	5717	+2086
52	30 11 23.5	−0.3453	5677	+2095	53	27 3 56.6	+0.5138	5737	+2085
53	30 18 5.0	+0.5310	5688	+2090	1	28 8 22.3	+0.5431	5835	+1962
1	31 23 7.4	+0.6261	5752	+1955	3	30 9 20.0	−1.1169	5996	+1306

Elemente der Stern-Bedeckungen 1901.

Nr.	Zeit der Conj. in AR.	q	p'	q'
	Oct.			
	d h m			
5	1 6 8.3	−1.1402	6030	+0886
6	1 19 46.6	−1.0848	6031	+0588
8	2 0 13.8	+0.5299	6024	+0488
9	2 9 9.3	+1.1698	6010	+0285
11	2 15 36.3	−0.3196	5996	+0138
12	3 3 26.2	−1.1216	5961	−0128
13	3 10 10.6	−0.4225	5934	−0276
14	3 14 1.6	−0.4257	5918	−0358
15	4 0 15.9	−1.0428	5868	−0571
16	4 5 52.9	+1.2055	5838	−0682
17	4 20 59.5	+1.0255	5752	−0960
18	5 3 42.6	+1.0514	5713	−1073
19	6 18 15.8	−0.1421	5490	−1580
20	6 22 40.3	+0.3973	5469	−1623
21	8 0 15.0	−1.3007	5356	−1810
22	9 13 40.6	+0.3618	5262	−1913
24	10 1 41.8	−1.1222	5247	−1904
28	14 5 15.0	−0.3774	5355	−1151
31	15 17 42.0	+0.7040	5432	−0619
34	15 20 52.2	+0.1850	5438	−0568
35	16 2 40.9	+0.5132	5446	−0473
37	17 5 44.5	+1.1705	5481	−0016
43	19 14 34.8	+0.5830	5499	+0944
44	20 0 23.4	−0.2261	5499	+1097
45	20 7 38.8	−0.0370	5500	+1204
46	20 18 28.5	+0.6441	5501	+1358
47	21 17 16.0	+0.5554	5518	+1643
48	22 6 25.3	−0.8172	5532	+1780
49	22 9 46.7	+1.0712	5538	+1811
50	22 18 15.0	+0.0109	5554	+1883
51	23 10 4.4	+0.7543	5595	+1987
52	24 8 10.9	−0.2805	5670	+2055
53	24 14 51.4	+0.5698	5700	+2059
1	25 19 24.0	+0.5586	5840	+1952
3	27 19 39.3	−1.1447	6078	+1313
5	28 15 52.5	−1.1823	6134	+0895
6	29 5 4.4	−1.1362	6142	+0592
8	29 9 22.5	+0.4495	6142	+0491

Nr.	Zeit der Conj. in AR.	q	p'	q'
	Oct.			
	d h m			
9	29 17 59.5	+1.0730	6130	+0285
11	30 0 12.9	−0.3954	6115	+0135
12	30 11 37.9	−1.1888	6074	−0135
13	30 18 8.4	−0.5043	6045	−0285
14	30 21 51.4	−0.5092	6025	−0368
15	31 7 45.4	−1.1199	5970	−0583
16	31 13 11.7	+1.0918	5935	−0695
	Nov.			
17	1 3 51.7	+0.9142	5835	−0974
18	1 10 24.2	+0.9395	5786	−1087
19	3 0 12.4	−0.2343	5520	−1585
20	3 4 33.8	+0.3023	5494	−1626
22	5 19 24.6	+0.2987	5238	−1897
24	6 7 29.4	−1.1785	5221	−1888
25	7 16 8.6	+0.6770	5221	−1773
26	8 0 1.7	+1.0085	5230	−1727
27	8 16 2.4	+0.1514	5256	−1610
37	13 11 50.6	+1.1880	5496	−0015
43	15 20 58.8	+0.6005	5474	+0939
44	16 6 55.7	−0.2163	5464	+1088
45	16 14 18.4	−0.0268	5461	+1194
46	17 1 21.1	+0.6606	5446	+1343
47	18 0 43.2	+0.5685	5438	+1618
48	18 14 16.4	−0.8272	5441	+1749
49	18 17 44.4	+1.0898	5445	+1779
50	19 2 29.6	+0.0115	5455	+1848
51	19 18 52.6	+0.7643	5487	+1948
52	20 17 47.0	−0.2900	5564	+2017
53	21 0 41.4	+0.5728	5593	+2020
1	22 6 7.5	+0.5592	5759	+1924
3	24 7 8.8	−1.1460	6065	+1312
5	25 3 19.4	−1.1728	6159	+0902
6	25 16 22.6	−1.1198	6193	+0599
8	25 20 36.7	+0.4570	6199	+0498
9	26 5 4.1	+1.0769	6201	+0292
11	26 11 9.4	−0.3752	6194	+0141
12	26 22 17.1	−1.1548	6170	−0133

Elemente der Stern-Bedeckungen 1901.

Nr.	Zeit der Conj. in AR.	q	p'	q'	Nr.	Zeit der Conj. in AR.	q	p'	q'
	Nov.					Dec.			
	d h m					d h m			
13	27 4 36.5	−0.4751	6146	−0285	50	16 8 30.7	−0.1387	5415	+1830
14	27 8 12.9	−0.4780	6130	−0371	51	17 1 14.3	+0.6188	5426	+1924
15	27 17 48.1	−1.0750	6081	−0590	52	18 0 48.0	−0.4503	5475	+1986
16	27 23 3.5	+1.1058	6048	−0704	53	18 7 56.4	+0.4284	5498	+1987
17	28 13 13.0	+0.9356	5949	−0990	1	19 14 29.0	+0.4307	5634	+1890
18	28 19 31.4	+0.9634	5903	−1105	2	19 20 49.0	+1.2963	5671	+1847
19	30 8 1.5	−0.1775	5615	−1610	3	21 17 22.2	−1.2458	5963	+1304
20	30 12 14.6	+0.3525	5582	−1650	5	22 14 7.8	−1.2380	6080	+0905
					6	23 3 27.4	−1.1600	6134	+0610
	Dec.				8	23 7 45.8	+0.4359	6150	+0511
21	1 12 56.0	−1.3000	5419	−1825	9	23 16 20.0	+1.0722	6168	+0306
22	3 1 42.9	+0.3612	5259	−1906	11	23 22 28.7	−0.3768	6174	+0157
24	3 13 40.4	−1.1071	5230	−1892	12	24 9 39.2	−1.1365	6169	−0116
25	4 22 11.4	+0.7323	5208	−1773	13	24 15 58.4	−0.4449	6156	−0269
26	5 6 4.6	+1.0602	5214	−1726	14	24 19 34.2	−0.4415	6150	−0355
27	5 22 7.0	+0.1984	5237	−1608	15	25 5 5.4	−1.0191	6116	−0577
28	7 17 40.6	−0.3582	5348	−1152	16	25 10 17.4	+1.1625	6093	−0693
43	13 2 38.4	+0.5069	5503	+0935	17	26 0 13.9	+1.0144	6015	−0985
44	13 12 32.7	−0.3199	5490	+1083	18	26 6 24.9	+1.0513	5976	−1103
45	13 19 54.1	−0.1364	5478	+1190	19	27 17 57.0	−0.0232	5715	−1625
46	14 6 56.3	+0.5438	5458	+1338	20	27 22 2.3	+0.5053	5682	−1668
47	15 6 24.2	+0.4357	5428	+1608	21	28 21 56.6	−1.0945	5516	−1849
48	15 20 6.1	−0.9795	5419	+1736	22	30 9 38.8	+0.5720	5330	−1928
49	15 23 36.9	+0.9533	5415	+1765	24	30 21 18.8	−0.8746	5291	−1914

Stern-Bedeckungen für Berlin 1901.

Tag	Nr.	Name	Eintritt mittl. Zeit	Q_1	Austritt mittl. Zeit	Q_2	Bemerkungen
Jan. 14	29	ι Librae . .	15h 30m.5	154°.5	16h 18m.3	241°.7	☾ Aufg. 15h 13m
28	5	13 Tauri . . .	9 24.3	—	—	—	✻ 1″ nördl. vom ☾rand
30	13	χ^1 Orionis . .	15 32.4	98.2	16 24.8	279.5	☾ Untg. 17 13
März 2	20	κ Cancri . .	11 56.3	105.6	13 8.9	304.2	☾ i. Mer. 10 19
25	11	*l* Tauri . . .	7 42.0	69.9	8 42.8	297.7	☾ i. Mer. 4 46
26	14	χ^4 Orionis . .	6 11.1	35.4	6 47.5	338.3	⊙ Untg. 6 21
April 7	32	ω^1 Scorpii . .	17 14.6	19.8	17 36.4	347.4	⊙ Aufg. 17 22
9	38	58 Ophiuchi .	12 35.3	163.1	12 59.7	203.6	☾ Aufg. 12 25
Mai 5	36	ω Ophiuchi .	9 43.7	—	—	—	✻ 7″ südl. vom ☾rand
7	41	21 Sagittarii .	13 54.1	56.5	15 6.3	290.5	☾ i. Mer. 15 20
8	42	*d* Sagittarii .	13 33.1	115.1	14 36.3	225.1	☾ Aufg. 11 46
13	53	λ Piscium . .	14 53.0	90.5	15 46.6	224.5	☾ Aufg. 14 0
Juni 3	39	μ Sagittarii .	15 19.5	120.6	16 15.3	217.9	⊙ Aufg. 15 43
28	32	ω^1 Scorpii . .	12 23.7	56.7	13 23.1	308.0	☾ Untg. 13 44
28	33	ω^2 Scorpii . .	12 39.4	103.4	13 49.4	260.3	
Juli 28	41	21 Sagittarii .	11 4.2	65.3	12 18.2	273.3	☾ i. Mer. 9 53
29	42	*d* Sagittarii .	9 47.4	96.0	11 1.6	238.2	☾ i. Mer. 10 45
Aug. 4	1	δ Piscium .	15 54.3	96.8	16 55.9	212.9	⊙ Aufg. 16 26
8	8	ε Tauri . . .	11 5.6	104.0	11 50.6	239.8	☾ Aufg. 11 23
28	49	c^1 Capricorni	14 3.0	97.0	14 58.4	214.5	☾ Untg. 16 34
29	51	κ Aquarii . .	13 35.4	41.7	14 38.8	265.8	☾ i. Mer. 12 0
Sept. 9	20	κ Cancri . .	15 23.0	95.4	16 20.4	292.1	☾ Aufg. 14 41
Oct. 17	37	ξ Ophiuchi .	6 28.0	—	—	—	✻ 8″ südl. vom ☾rand
23	51	κ Aquarii . .	10 3.9	72.7	11 12.3	235.6	☾ i. Mer. 8 23
Nov. 1	18	68 Geminorum	9 13.1	152.8	9 41.3	219.3	☾ Aufg. 9 10
26	9	*i* Tauri . . .	3 57.2	130.9	4 28.6	217.4	☾ Aufg. 4 35
30	20	κ Cancri . .	10 46.1	51.7	11 22.3	336.8	☾ Aufg. 9 18
Dec. 15	47	ν Aquarii . .	7 15.5	9.6	7 49.9	306.1	☾ Untg. 8 33
18	53	λ Piscium .	8 26.9	23.4	9 17.3	288.3	☾ Untg. 12 10
23	8	ε Tauri . . .	6 46.0	27.7	7 24.8	312.2	☾ i. Mer. 10 23

TRABANT I.

Geoc. Obere Conj. Mittlere Zeit	h m	b/a	Geoc. Obere Conj. Mittlere Zeit	h m	b/a	Geoc. Obere Conj. Mittlere Zeit	h m	b/a
Jan. 1	21 22.0	−0.0408	März 22	13 40.2	−0.0350	Juni 10	4 13.4	−0.0328
3	15 52.4	407	24	8 9.1	349	11	22 39.5	328
5	10 22.7	406	26	2 37.8	348	13	17 5.6	328
7	4 53.0	405	27	21 6.6	347	15	11 31.7	328
8	23 23.2	404	29	15 35.1	346	17	5 57.7	328
10	17 53.5	402	31	10 3.7	345	19	0 23.7	328
12	12 23.8	401	April 2	4 32.2	344	20	18 49.7	328
14	6 53.9	399	3	23 0.6	343	22	13 15.7	328
16	1 24.2	398	5	17 28.9	342	24	7 41.7	328
17	19 54.4	397	7	11 57.3	341	26	2 7.6	328
19	14 24.6	395	9	6 25.5	340	27	20 33.6	328
21	8 54.8	394	11	0 53.7	339	29	14 59.6	328
23	3 24.9	393	12	19 21.8	339	Juli 1	9 25.5	328
24	21 55.0	391	14	13 49.8	338	3	3 51.5	328
26	16 25.1	390	16	8 17.7	337	4	22 17.5	328
28	10 55.2	389	18	2 45.7	336	6	16 43.4	328
30	5 25.2	387	19	21 13.5	335	8	11 9.4	328
31	23 55.1	386	21	15 41.4	335	10	5 35.4	328
Febr. 2	18 25.2	385	23	10 9.1	334	12	0 1.5	328
4	12 55.1	383	25	4 36.7	333	13	18 27.5	328
6	7 25.1	382	26	23 4.2	333	15	12 53.6	328
8	1 54.9	381	28	17 31.8	332	17	7 19.7	328
9	20 24.8	379	30	11 59.2	332	19	1 46.0	328
11	14 54.6	378	Mai 2	6 26.7	331	20	20 12.3	328
13	9 24.4	377	4	0 54.0	331	22	14 38.5	328
15	3 54.1	375	5	19 21.3	331	24	9 4.9	328
16	22 24.0	374	7	13 48.4	330	26	3 31.3	327
18	16 53.6	373	9	8 15.6	330	27	21 57.8	327
20	11 23.3	371	11	2 42.6	329	29	16 24.3	327
22	5 52.8	370	12	21 9.6	329	31	10 50.7	327
24	0 22.4	368	14	15 36.4	329	Aug. 2	5 17.3	326
25	18 51.9	367	16	10 3.4	329	3	23 43.9	326
27	13 21.4	366	18	4 30.1	328	5	18 10.6	326
März 1	7 50.8	365	19	22 56.9	328	7	12 37.3	325
3	2 20.2	363	21	17 23.5	328	9	7 4.2	325
4	20 49.5	362	23	11 49.2	328	11	1 31.1	325
6	15 18.9	361	25	6 16.7	328	12	19 58.0	325
8	9 48.0	359	27	0 43.2	328	14	14 25.0	324
10	4 17.2	358	28	19 9.7	328	16	8 52.1	324
11	22 46.3	357	30	13 36.1	328	18	3 19.3	323
13	17 15.5	356	Juni 1	8 2.4	328	19	21 46.5	323
15	11 44.5	354	3	2 28.7	328	21	16 13.8	323
17	6 13.6	353	4	20 54.9	328	23	10 41.2	322
19	0 42.5	352	6	15 21.2	328	25	5 8.7	322
20	19 11.5	351	8	9 47.3	328	26	23 36.3	321

TRABANT I. (Fortsetzung.)

Geoc. Obere Conj. Mittlere Zeit				$\frac{b}{a}$	Geoc. Obere Conj. Mittlere Zeit				$\frac{b}{a}$	Geoc. Obere Conj. Mittlere Zeit				$\frac{b}{a}$
		h	m				h	m				h	m	
Aug.	28	18	3.8	−0.0321	Oct.	10	5	26.4	−0.0302	Nov.	21	17	19.6	−0.0267
	30	12	31.5	320		11	23	55.7	301		23	11	49.7	265
Sept.	1	6	59.3	320		13	18	24.9	300		25	6	19.9	264
	3	1	27.1	319		15	12	54.2	298		27	0	50.1	262
	4	19	55.0	319		17	7	23.6	297		28	19	20.3	261
	6	14	22.9	319		19	1	53.0	296		30	13	50.5	259
	8	8	50.9	318		20	20	22.5	295	Dec.	2	8	20.9	257
	10	3	19.0	317		22	14	52.0	293		4	2	51.1	255
	11	21	47.1	317		24	9	21.5	292		5	21	21.4	253
	13	16	15.4	316		26	3	51.2	290		7	15	51.7	251
	15	10	43.7	315		27	22	20.8	289		9	10	22.0	249
	17	5	12.1	315		29	16	50.6	288		11	4	52.4	247
	18	23	40.5	314		31	11	20.3	287		12	23	22.7	245
	20	18	9.0	313	Nov.	2	5	50.0	285		14	17	53.1	243
	22	12	37.6	312		4	0	19.8	284		16	12	23.5	241
	24	7	6.2	311		5	18	49.7	282		18	6	53.9	239
	26	1	34.8	310		7	13	19.5	280		20	1	24.2	236
	27	20	3.6	309		9	7	49.4	279		21	19	54.7	234
	29	14	32.4	308		11	2	19.3	278		23	14	25.1	232
Oct.	1	9	1.2	308		12	20	49.3	276		25	8	55.5	230
	3	3	30.2	307		14	15	19.3	275		27	3	26.0	228
	4	21	59.1	306		16	9	49.3	273		28	21	56.5	225
	6	16	28.2	304		18	4	19.4	271		30	16	27.0	223
	8	10	57.2	303		19	22	49.5	269		32	10	57.4	221

TRABANT II.

		h	m				h	m				h	m	
Jan.	2	12	0.5	−0.0407	März	11	2	7.7	−0.0357	Mai	17	13	53.2	−0.0329
	6	1	25.0	405		14	15	27.1	355		21	3	3.0	328
	9	14	49.3	403		18	4	46.0	353		24	16	12.5	328
	13	4	13.6	400		21	18	4.4	350		28	5	21.5	328
	16	17	37.5	397		25	7	22.4	348		31	18	30.3	328
	20	7	1.4	395		28	20	39.9	346	Juni	4	7	38.5	328
	23	20	25.0	392	April	1	9	57.1	344		7	20	46.6	328
	27	9	48.4	389		4	23	13.8	343		11	9	54.2	328
	30	23	11.5	387		8	12	29.9	341		14	23	1.8	328
Febr.	3	12	34.5	384		12	1	45.5	339		18	12	8.9	328
	7	1	57.2	381		15	15	0.6	337		22	1	16.2	328
	10	15	19.6	379		19	4	15.3	336		25	14	23.1	328
	14	4	41.8	376		22	17	29.5	335		29	3	30.4	328
	17	18	3.6	373		26	6	43.0	333	Juli	2	16	37.3	328
	21	7	25.1	371		29	19	56.0	332		6	5	44.6	328
	24	20	46.3	368	Mai	3	9	8.4	331		9	18	51.8	328
	28	10	7.2	366		6	22	20.4	330		13	7	59.7	328
März	3	23	27.8	363		10	11	31.8	329		16	21	7.3	328
	7	12	47.9	360		14	0	42.7	329		20	10	15.7	328

TRABANT II. (Fortsetzung.)

Geoc. Obere Conj. Mittlere Zeit		b/a	Geoc. Obere Conj. Mittlere Zeit		b/a	Geoc. Obere Conj. Mittlere Zeit		b/a
	h m			h m			h m	
Juli 23	23 24.0	−0.0328	Sept. 18	18 54.0	−0.0314	Nov. 14	16 38.1	−0.0274
27	12 33.3	327	22	8 12.6	312	18	6 3.0	271
31	1 42.6	327	25	21 30.7	310	21	19 27.1	267
Aug. 3	14 52.9	326	29	10 50.5	309	25	8 52.5	264
7	4 3.0	325	Oct. 3	0 9.6	307	28	22 17.1	260
10	17 14.4	325	6	13 30.3	305	Dec. 2	11 42.8	257
14	6 25.5	324	10	2 50.3	302	6	1 7.6	253
17	19 38.1	324	13	16 12.0	300	9	14 33.6	249
21	8 50.4	323	17	5 33.0	297	13	3 58.7	245
24	22 4.2	322	20	18 55.5	295	16	17 24.8	240
28	11 17.6	321	24	8 17.3	292	20	6 50.2	236
Sept. 1	0 32.6	320	27	21 40.6	289	23	20 16.6	232
4	13 47.4	319	31	11 3.0	286	27	9 42.0	228
8	3 3.7	318	Nov. 4	0 26.8	284	30	23 8.2	223
11	16 19.5	317	7	13 49.9	281	34	12 33.6	218
15	5 37.0	316	11	3 14.4	277			

TRABANT III.

	h m			h m			h m	
Jan. 1	21 50.0	−0.0408	Mai 3	20 44.6	−0.0331	Sept. 2	7 6.3	−0.0320
9	2 18.0	403	11	0 22.3	329	9	10 53.7	318
16	6 45.6	398	18	3 55.0	328	16	14 45.8	315
23	11 11.7	392	25	7 23.3	328	23	18 42.9	312
30	15 36.4	387	Juni 1	10 48.1	328	30	22 43.8	308
Febr. 6	19 59.1	382	8	14 9.8	328	Oct. 8	2 48.5	304
14	0 19.7	376	15	17 29.4	328	15	6 56.6	299
21	4 38.5	371	22	20 46.7	328	22	11 8.2	293
28	8 54.7	365	30	0 3.1	328	29	15 23.1	288
März 7	13 8.8	360	Juli 7	3 19.1	328	Nov. 5	19 40.6	282
14	17 19.3	355	14	6 36.0	328	13	0 1.4	276
21	21 26.5	350	21	9 55.1	328	20	4 23.9	269
29	1 29.6	346	28	13 17.0	327	27	8 48.3	262
April 5	5 28.8	342	Aug. 4	16 43.0	326	Dec. 4	13 14.0	255
12	9 24.3	339	11	20 12.3	325	11	17 41.1	247
19	13 15.4	336	18	23 45.9	323	18	22 9.7	238
26	17 2.6	333	26	3 23.8	321	26	2 39.3	229
						33	7 9.9	220

TRABANT IV.

	h m			h m			h m	
Jan. 3	17 50.6	−0.0358	Mai 17	23 30.1	−0.0293	Sept. 11	8 55.0	−0.0273
20	14 25.9	348	Juni 3	14 34.4	290	28	2 38.3	265
Febr. 6	10 44.7	339	20	4 58.3	290	Oct. 14	21 15.8	257
23	6 40.3	329	Juli 6	19 6.1	288	31	16 36.1	247
März 12	2 2.6	318	23	9 25.6	285	Nov. 17	12 30.9	235
28	20 42.7	309	Aug. 9	0 20.6	282	Dec. 4	8 52.3	221
April 14	14 36.2	303	25	16 8.0	278	21	5 32.3	207
Mai 1	7 32.3	297				38	2 22.8	192

TRABANT I.

Eintritte		h	m	s
Jan.	14	5	16	31
	15	23	45	4
	17	18	13	30
	19	12	42	3
	21	7	10	30
	23	1	39	2
	24	20	7	27
	26	14	36	0
	28	9	4	26
	30	3	32	57
	31	22	1	22
Febr.	2	16	29	54
	4	10	58	19
	6	5	26	50
	7	23	55	14
	9	18	23	45
	11	12	52	10
	13	7	20	40
	15	1	49	3
	16	20	17	34
	18	14	45	58
	20	9	14	28
	22	3	42	50
	23	22	11	20
	25	16	39	44
	27	11	8	14
März	1	5	36	35
	3	0	5	5
	4	18	33	29
	6	13	1	58
	8	7	30	19
	10	1	58	48
	11	20	27	11
	13	14	55	40
	15	9	24	1
	17	3	52	30
	18	22	20	53
	20	16	49	22

Eintritte		h	m	s
März	22	11	17	42
	24	5	46	11
	26	0	14	33
	27	18	43	2
	29	13	11	23
	31	7	39	51
April	2	2	8	14
	3	20	36	42
	5	15	5	3
	7	9	33	31
	9	4	1	54
	10	22	30	22
	12	16	58	43
	14	11	27	12
	16	5	55	35
	18	0	24	4
	19	18	52	25
	21	13	20	53
	23	7	49	17
	25	2	17	46
	26	20	46	8
	28	15	14	36
	30	9	43	0
Mai	2	4	11	30
	3	22	39	52
	5	17	8	22
	7	11	36	46
	9	6	5	17
	11	0	33	40
	12	19	2	10
	14	13	30	35
	16	7	59	6
	18	2	27	30
	19	20	56	1
	21	15	24	27
	23	9	52	59
	25	4	21	24
	26	22	49	56

Eintritte		h	m	s
Mai	28	17	18	23
	30	11	46	56
Juni	1	6	15	23
	3	0	43	55
	4	19	12	23
	6	13	40	58
	8	8	9	26
	10	2	37	59
	11	21	6	29
	13	15	35	5
	15	10	3	34
	17	4	32	9
	18	23	0	40
	20	17	29	17
	22	11	57	48
	24	6	26	24
	26	0	54	56
	27	19	23	35
	29	13	52	7
Austritte				
Juli	1	10	33	31
	3	5	2	5
	4	23	30	45
	6	17	59	20
	8	12	27	59
	10	6	56	35
	12	1	25	16
	13	19	53	52
	15	14	22	32
	17	8	51	10
	19	3	19	52
	20	21	48	30
	22	16	17	11
	24	10	45	50
	26	5	14	33
	27	23	43	12
	29	18	11	55

Austritte		h	m	s
Juli	31	12	40	35
Aug.	2	7	9	19
	4	1	38	0
	5	20	6	43
	7	14	35	24
	9	9	4	9
	11	3	32	51
	12	22	1	35
	14	16	30	17
	16	10	59	3
	18	5	27	46
	19	23	56	30
	21	18	25	13
	23	12	54	0
	25	7	22	44
	27	1	51	29
	28	20	20	12
	30	14	49	0
Sept.	1	9	17	44
	3	3	46	29
	4	22	15	13
	6	16	44	1
	8	11	12	45
	10	5	41	31
	12	0	10	15
	13	18	39	3
	15	13	7	48
	17	7	36	34
	19	2	5	18
	20	20	34	6
	22	15	2	52
	24	9	31	37
	26	4	0	22
	27	22	29	9
	29	16	57	55
Oct.	1	11	26	40
	3	5	55	25
	5	0	24	12

TRABANT I. (Fortsetzung.)

Austritte					Austritte					Austritte					Austritte				
		h	m	s			h	m	s			h	m	s			h	m	s
Oct.	6	18	52	58	Oct.	24	11	40	29	Nov.	11	4	27	51	Nov.	28	21	14	55
	8	13	21	43		26	6	9	14		12	22	56	33		30	15	43	36
	10	7	50	27		28	0	37	59		14	17	25	16	Dec.	2	10	12	19
	12	2	19	14		29	19	6	43		16	11	53	59		4	4	40	59
	13	20	48	0		31	13	35	27		18	6	22	43		5	23	9	40
	15	15	16	44	Nov.	2	8	4	11		20	0	51	25		7	17	38	20
	17	9	45	29		4	2	32	56		21	19	20	7		9	12	7	3
	19	4	14	15		5	21	1	39		23	13	48	49		11	6	35	42
	20	22	43	0		7	15	30	23		25	8	17	33		13	1	4	22
	22	17	11	45		9	9	59	7		27	2	46	13		14	19	33	1

TRABANT II.

Eintritte					Eintritte					Austritte					Austritte				
		h	m	s			h	m	s			h	m	s			h	m	s
Jan.	13	1	54	17	April	8	8	34	45	Juli	2	18	6	28	Sept.	26	1	33	37
	16	15	11	19		11	21	51	18		6	7	24	36		29	14	53	18
	20	4	28	20		15	11	7	53		9	20	42	26	Oct.	3	4	11	54
	23	17	45	18		19	0	24	27		13	10	0	45		6	17	31	36
	27	7	2	13		22	13	41	5		16	23	18	41		10	6	50	13
	30	20	19	6		26	2	57	42		20	12	37	11		13	20	9	57
Febr.	3	9	35	56		29	16	14	23		24	1	55	12		17	9	28	34
	6	22	52	44	Mai	3	5	31	4		27	15	13	52		20	22	48	18
	10	12	9	29		6	18	47	49		31	4	32	0		24	12	6	54
	14	1	26	13		10	8	4	35	Aug.	3	17	50	49		28	1	26	37
	17	14	42	53		13	21	21	24		7	7	9	2		31	14	45	12
	21	3	59	34		17	10	38	17		10	20	28	1	Nov.	4	4	4	53
	24	17	16	11		20	23	55	11		14	9	46	18		7	17	23	26
	28	6	32	48		24	13	12	10		17	23	5	25		11	6	43	4
März	3	19	49	23		28	2	29	9		21	12	23	47		14	20	1	35
	7	9	5	58		31	15	46	16		25	1	43	2		18	9	21	9
	10	22	22	30	Juni	4	5	3	21		28	15	1	27		21	22	39	37
	14	11	39	3		7	18	20	37	Sept.	1	4	20	49		25	11	59	7
	18	0	55	35		11	7	37	47		4	17	39	18		29	1	17	32
	21	14	12	6		14	20	55	12		8	6	58	46	Dec.	2	14	36	56
	25	3	28	38		18	10	12	29		11	20	17	18		6	3	55	18
	28	16	45	9		21	23	30	4		15	9	36	51		9	17	14	36
April	1	6	1	41		25	12	47	27		18	22	55	25		13	6	32	54
	4	19	18	12		29	2	5	12		22	12	15	2					

TRABANT III.

Mitte der Verfinsterung		Halbe Dauer	Mitte der Verfinsterung		Halbe Dauer
	h m s	h m s		h m s	h m s
Jan. 16	4 29 3	1 13 5	Juli 7	4 0 44	1 27 41
23	8 27 53	1 13 44	14	8 0 4	1 28 14
30	12 26 53	1 14 22	21	11 59 48	1 28 47
Febr. 6	16 25 20	1 15 1	28	15 59 41	1 29 19
13	20 23 39	1 15 39	Aug. 4	20 0 18	1 29 51
21	0 22 8	1 16 17	12	0 0 26	1 30 22
28	4 20 40	1 16 55	19	4 0 45	1 30 53
März 7	8 19 50	1 17 33	26	8 0 41	1 31 24
14	12 18 27	1 18 11	Sept. 2	12 0 40	1 31 54
21	16 17 14	1 18 49	9	16 1 0	1 32 24
28	20 15 31	1 19 26	16	20 1 23	1 32 53
April 5	0 13 44	1 20 3	24	0 2 25	1 33 22
12	4 12 11	1 20 40	Oct. 1	4 2 52	1 33 51
19	8 10 45	1 21 17	8	8 3 23	1 34 20
26	12 9 58	1 21 54	15	12 3 29	1 34 48
Mai 3	16 8 43	1 22 30	22	16 3 33	1 35 15
10	20 7 39	1 23 5	29	20 3 57	1 35 42
18	0 6 11	1 23 41	Nov. 6	0 4 19	1 36 9
25	4 4 45	1 24 16	13	4 5 16	1 36 35
Juni 1	8 3 39	1 24 51	20	8 5 35	1 37 0
8	12 2 43	1 25 26	27	12 5 53	1 37 25
15	16 2 31	1 26 0	Dec. 4	16 5 45	1 37 50
22	20 1 53	1 26 34	11	20 5 34	1 38 15
30	0 1 29	1 27 8			

TRABANT IV.

Mitte der Verfinsterung		Halbe Dauer	Mitte der Verfinsterung		Halbe Dauer
	h m s			h m s	h m s
Jan. 20	8 29 15		Juli 6	20 39 5	1 5 19
Febr. 6	2 29 28		23	14 43 34	1 12 2
22	20 29 55		Aug. 9	8 48 25	1 18 7
März 11	14 29 47		26	2 54 3	1 23 41
28	8 29 47		Sept. 11	21 0 28	1 28 50
April 14	2 30 20	h m s	28	15 6 55	1 33 37
30	20 30 40	0 23 13	Oct. 15	9 13 41	1 38 4
Mai 17	14 31 37	0 38 25	Nov. 1	3 20 40	1 42 13
Juni 3	8 33 35	0 49 5	17	21 27 23	1 46 6
20	2 35 51	0 57 47	Dec. 4	15 34 8	1 49 46

Lage und Gröfse des Saturns-Ringes 1901

nach

Bessel.

0^h		p	l	a	b	u	u'
		° ′	° ′	″	″	° ′	° ′
1900 Dec.	30	6 46.0	+25 51.5	33.95	+14.81	333 50.2	291 35.5
1901 Jan.	15	6 52.6	25 32.1	34.06	14.68	335 53.0	293 38.4
	31	6 58.2	25 11.8	34.38	14.64	337 49.7	295 35.1
Febr.	16	7 2.8	24 51.8	34.90	14.67	339 35.3	297 20.8
März	4	7 6.4	24 33.7	35.59	14.79	341 5.1	298 50.7
	20	7 9.0	+24 18.9	36.43	+15.00	342 15.1	300 0.7
April	5	7 10.6	24 8.8	37.39	15.29	343 1.8	300 47.6
	21	7 11.3	24 4.3	38.40	15.66	343 22.9	301 8.7
Mai	7	7 11.1	24 6.0	39.40	16.09	343 17.5	301 3.4
	23	7 10.1	24 13.6	40.29	16.53	342 46.7	300 32.7
Juni	8	7 8.3	+24 26.2	40.98	+16.95	341 54.1	299 40.1
	24	7 5.8	24 41.9	41.39	17.30	340 46.0	298 32.1
Juli	10	7 2.9	24 58.7	41.47	17.51	339 30.9	297 17.1
	26	6 59.8	25 14.4	41.20	17.57	338 18.2	296 4.5
Aug.	11	6 57.1	25 27.6	40.63	17.47	337 17.5	295 3.8
	27	6 55.2	+25 37.0	39.82	+17.22	336 36.1	294 22.5
Sept.	12	6 54.5	25 41.8	38.86	16.85	336 19.5	294 6.0
	28	6 55.1	25 41.8	37.85	16.41	336 30.0	294 16.6
Oct.	14	6 57.0	25 36.8	36.86	15.94	337 7.3	294 53.9
	30	6 59.9	25 26.9	35.97	15.46	338 9.4	295 56.1
Nov.	15	7 3.6	+25 12.1	35.22	+15.00	339 32.7	297 19.5
Dec.	1	7 7.6	24 52.8	34.63	14.57	341 12.8	298 59.7
	17	7 11.6	24 29.6	34.23	14.19	343 4.5	300 51.4
	33	7 15.2	24 3.1	34.04	13.87	345 2.9	302 49.9

p . . . Winkel der kleinen Axe der Ring-Ellipse mit dem Declinations-Kreise; östlich positiv, westlich negativ.

l . . . Erhöhungs-Winkel der Erde über der Ring-Ebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

a . . . Grofse Axe der Ring-Ellipse.

b . . . Kleine Axe der Ring-Ellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

u . . . Länge der Erde vom Saturn aus gesehen, gezählt auf der Ring-Ebene vom aufsteigenden Knoten des Ringes im Aequator an.

u' . . . Dieselbe Länge, gezählt vom aufsteigenden Knoten des Ringes in der Ekliptik an.

		h	
Jan.	2	9	· im Perigaeum
	3	10	♀ ☌ ♅, ♀ 1° 10′ nördl.
	5	22	☿ im Aphel
	7	12	☿ ☌ ♄, ☿ 1° 51′ südl.
	9	9	♂ ☌ ☾
	12	11	α Virginis ☌ ☾. Bedeckung
	15	10	♀ ☌ ♃, ♀ 0° 22′ nördl.
	15	17	β Scorpii ☌ ☾. Bedeckung
	17	22	♃ ☌ ☾
	18	3	♀ ☌ ☾
	18	16	♄ ☌ ☾
	20	4	☿ ☌ ☾
	20	13	♂ gr. nördl. hel. Breite
	21	15	☿ obere ☌ ☉
	24	9	♀ ☌ ♄, ♀ 0° 20′ südl.
	26	7	☿ gr. südl. hel. Breite
	29	18	♀ im ☋
Febr.	5	11	♂ ☌ ☾
	8	19	α Virginis ☌ ☾. Bedeckung
	12	2	β Scorpii ☌ ☾. Bedeckung
	14	7	☿ im ☊
	14	13	♅ im ☋
	14	18	♃ ☌ ☾
	15	8	♄ ☌ ☾
	17	10	♀ ☌ ☾
	18	21	☿ im Perihel
	19	11	☿ gr. östl. Elong. 18° 6′
	20	2	☿ ☌ ☾
	21	19	♂ ☍ ☉
	24	20	♂ im Aphel
März	1	4	☿ gr. nördl. hel. Breite
	3	22	♂ ☌ ☾
	5	7	♀ im Aphel
	7	6	☿ untere ☌ ☉
	7	14	♅ □ ☉
	8	2	α Virginis ☌ ☾. Bedeckung
	11	10	β Scorpii ☌ ☾. Bedeckung
	14	12	♃ ☌ ☾
	14	22	♄ ☌ ☾
	17	7	♆ □ ☉
	18	19	☿ ☌ ☾
	19	12	♀ ☌ ☾
	20	20	☉ im ♈, Frühlingsanfang
	24	16	☿ im ☋
	27	14	♀ gr. südl. hel. Breite
	30	16	♂ ☌ ☾
April	1	19	♃ □ ☉
April	3	19	☿ gr. westl. Elong. 27° 48′
	3	21	☿ im Aphel
	4	9	α Virginis ☌ ☾. Bedeckung
	6	3	♄ □ ☉
	7	16	β Scorpii ☌ ☾. Bedeckung
	11	1	♃ ☌ ☾
	11	8	♄ ☌ ☾
	16	22	☿ ☌ ☾
	18	8	♀ ☌ ☾
	24	6	☿ gr. südl. hel. Breite
	27	3	♂ ☌ ☾
	30	14	♀ obere ☌ ☉
Mai	1	15	α Virginis ☌ ☾. Bedeckung
	4	2	♂ ☌ α Leonis, ♂ 1° 38′ nördl.
	4	22	β Scorpii ☌ ☾. Bedeckung
	8	8	♃ ☌ ☾
	8	14	♄ ☌ ☾
	13	6	☿ im ☊
	14	6	☿ obere ☌ ☉
	17	—	☉ Finsternifs
	17	21	☿ im Perihel
	18	2	☿ ☌ ☾
	18	2	♀ ☌ ☾
	18	7	☿ ☌ ♀, ☿ 1° 4′ nördl.
	22	21	♀ im ☊
	25	4	♂ ☌ ☾
	28	4	☿ gr. nördl. hel. Breite
	28	9	♂ □ ☉
	28	21	α Virginis ☌ ☾. Bedeckung
Juni	1	4	β Scorpii ☌ ☾. Bedeckung
	4	10	♃ ☌ ☾
	4	17	♄ ☌ ☾
	5	21	♅ ☍ ☉
	9	2	♀ ☌ ♆, ♀ 1° 49′ nördl.
	15	17	☿ gr. östl. Elong. 24° 39′
	17	2	♀ ☌ ☾
	18	0	☿ ☌ ☾
	20	14	♆ ☌ ☉
	20	15	☿ im ☋
	21	16	☉ im ♋, Sommersanfang
	22	13	♂ ☌ ☾
	25	4	α Virginis ☌ ☾. Bedeckung
	25	14	♀ im Perihel
	28	11	β Scorpii ☌ ☾. Bedeckung
	30	6	♃ ☍ ☉
	30	20	☿ im Aphel
Juli	1	10	♃ ☌ ☾

Juli	1	20ʰ	♄ ☌ ☾
	4	6	☉ im Apogaeum
	5	10	♄ ☌ ☉
	13	1	☿ untere ☌ ☉
	15	5	☿ ☌ ☾
	15	15	♃ im ☋
	17	7	♀ ☌ ☾
	17	9	♀ gr. nördl. hel. Breite
	21	3	♂ ☌ ☾
	21	5	☿ gr. südl. hel. Breite
	22	12	α Virginis ☌ ☾. Bedeckung
	25	19	β Scorpii ☌ ☾. Bedeckung
	27	18	♀ ☌ α Leonis, ♀ 1° 9′ nördl.
	28	12	♃ ☌ ☾
	29	1	♄ ☌ ☾
Aug.	2	3	☿ gr. westl. Elong. 19° 23′
	6	1	♂ im ☋
	9	6	☿ im ☊
	12	20	☿ ☌ ☾
	13	20	☿ im Perihel
	16	12	♀ ☌ ☾
	18	10	♂ ☌ α Virginis. ♂ 2° 1′ nördl.
	18	20	♂ ☌ ☾
	18	20	α Virginis ☌ ☾. Bedeckung
	22	3	β Scorpii ☌ ☾. Bedeckung
	24	3	☿ gr. nördl. hel. Breite
	24	18	♃ ☌ ☾
	25	7	♄ ☌ ☾
	27	10	☿ obere ☌ ☉
Sept.	5	20	♅ □ ☉
	10	0	♀ ☌ α Virginis, ♀ 2° 17′ nördl.
	11	11	♀ im ☋
	13	20	☿ ☌ ☾
	15	3	α Virginis ☌ ☾. Bedeckung
	15	16	♀ ☌ ☾
	16	14	☿ im ☋
	16	16	♂ ☌ ☾. Bedeckung
	18	11	β Scorpii ☌ ☾. Bedeckung
	21	4	♃ ☌ ☾
	21	15	♄ ☌ ☾
	23	7	☉ im ♎ Herbstanfang
	24	19	♆ □ ☉
	26	20	☿ im Aphel
	27	20	♃ □ ☉
Oct.	3	14	♄ □ ☉
	10	3	♀ ☌ ♂, ♀ 0° 55′ südl.
Oct.	12	6ʰ	☿ gr. östl. Elong. 25° 3′
	14	7	☿ ☌ ☾
	15	16	♂ ☌ ☾
	15	18	β Scorpii ☌ ☾. Bedeckung
	15	21	♀ ☌ ☾
	15	23	♀ im Aphel
	17	5	☿ gr. südl. hel. Breite
	18	17	♃ ☌ ☾
	19	1	♄ ☌ ☾
	19	4	♀ ☌ α Scorpii, ♀ 2° 29′ nördl.
	25	1	♀ ☌ ♅, ♀ 2° 21′ südl.
	27	—	☾ Finsternifs
Nov.	3	21	♂ ☌ ♅, ♂ 0° 54′ südl.
	4	7	☿ untere ☌ ☉
	5	5	☿ im ☊
	7	7	♀ gr. südl. hel. Breite
	8	16	α Virginis ☌ ☾. Bedeckung
	9	19	☿ im Perihel
	9	20	☿ ☌ ☾
	10	—	☉ Finsternifs
	13	17	♂ ☌ ☾
	15	3	♀ ☌ ☾
	15	9	♃ ☌ ☾
	15	11	♄ ☌ ☾
	17	19	♀ ☌ ♃, ♀ 2° 45′ südl.
	18	20	♀ ☌ ♄, ♀ 3° 12′ südl.
	20	2	☿ gr. nördl. hel. Breite
	20	18	☿ gr. westl. Elong. 19° 42′
	27	19	♃ ☌ ♄, ♃ 0° 27′ südl.
Dec.	4	16	♀ östl. Elong. 47° 19′
	5	22	α Virginis ☌ ☾. Bedeckung
	7	18	☿ ☌ β Scorpii, ☿ 0° 20′ südl.
	9	10	♅ ☌ ☉
	9	11	☿ ☌ ☾
	12	21	♂ ☌ ☾
	12	23	♄ ☌ ☾
	13	2	♃ ☌ ☾
	13	14	☿ im ☋
	13	23	♂ ☌ ♄, ♂ 1° 18′ südl.
	15	0	♀ ☌ ☾
	17	3	♂ ☌ ♃, ♂ 0° 52′ südl.
	18	1	☿ ☌ ♅, ☿ 0° 28′ südl.
	22	2	☉ im ♑ Wintersanfang
	22	3	♆ ☍ ☉
	23	19	☿ im Aphel
	31	20	☉ im Perigaeum

Tafel zur Berechnung der Mondlibration.

λ-☊	Δλ	$\frac{1}{a}$	B		λ-☊	Δλ	$\frac{1}{a}$	B	
°	′		° ′		°	′		° ′	
0	0.0	+38	+0 0.0	1.6	35	+0.6	+46	+0 52.4	1.3
1	0.0	38	0 1.6	1.6	36	0.6	47	0 53.7	1.3
2	0.0	38	0 3.2	1.6	37	0.6	47	0 55.0	1.3
3	+0.1	38	0 4.8	1.6	38	0.6	48	0 56.3	1.3
4	0.1	38	0 6.4	1.6	39	0.6	48	0 57.6	1.2
5	+0.1	+38	+0 8.0	1.6	40	+0.6	+49	+0 58.8	1.2
6	0.1	38	0 9.6	1.6	41	0.6	49	1 0.0	1.2
7	0.1	38	0 11.2	1.5	42	0.6	50	1 1.2	1.2
8	0.2	38	0 12.7	1.6	43	0.6	51	1 2.4	1.1
9	0.2	38	0 14.3	1.6	44	0.6	52	1 3.5	1.1
10	+0.2	+38	+0 15.9	1.6	45	+0.6	+53	+1 4.6	1.1
11	0.2	38	0 17.5	1.5	46	0.6	54	1 5.7	1.1
12	0.2	38	0 19.0	1.6	47	0.6	55	1 6.8	1.1
13	0.2	38	0 20.6	1.5	48	0.6	56	1 7.9	1.1
14	0.2	39	0 22.1	1.6	49	0.6	57	1 9.0	1.0
15	+0.3	+39	+0 23.7	1.5	50	+0.6	+58	+1 10.0	1.0
16	0.3	39	0 25.2	1.6	51	0.6	59	1 11.0	1.0
17	0.3	39	0 26.8	1.5	52	0.6	61	1 12.0	1.0
18	0.3	39	0 28.3	1.5	53	0.6	62	1 13.0	0.9
19	0.3	40	0 29.8	1.5	54	0.6	64	1 13.9	1.0
20	+0.4	+40	+0 31.3	1.5	55	+0.6	+65	+1 14.9	0.9
21	0.4	40	0 32.8	1.5	56	0.6	67	1 15.8	0.9
22	0.4	40	0 34.3	1.5	57	0.6	69	1 16.7	0.8
23	0.4	41	0 35.8	1.4	58	0.6	71	1 17.5	0.8
24	0.4	41	0 37.2	1.5	59	0.5	73	1 18.3	0.8
25	+0.5	+41	+0 38.7	1.4	60	+0.5	+75	+1 19.1	0.8
26	0.5	42	0 40.1	1.4	61	0.5	77	1 19.9	0.7
27	0.5	42	0 41.5	1.4	62	0.5	80	1 20.6	0.8
28	0.5	43	0 42.9	1.4	63	0.5	83	1 21.4	0.7
29	0.5	43	0 44.3	1.4	64	0.5	86	1 22.1	0.7
30	+0.5	+43	+0 45.7	1.4	65	+0.5	+89	+1 22.8	0.6
31	0.5	44	0 47.1	1.3	66	0.4	92	1 23.4	0.7
32	0.6	44	0 48.4	1.4	67	0.4	96	1 24.1	0.6
33	0.6	45	0 49.8	1.3	68	0.4	100	1 24.7	0.6
34	0.6	45	0 51.1	1.3	69	0.4	105	1 25.3	0.5
35	+0.6	+46	+0 52.4		70	+0.4	+110	+1 25.8	

Tafel zur Berechnung der Mondlibration.

$\lambda - ☋$	$\Delta\lambda$	$\frac{1}{a}$	B		$\lambda - ☋$	$\Delta\lambda$	$\frac{1}{a}$	B	
70°	+0.4′	+110	+1° 25′.8	0.6	80°	+0.2′	+ 217	+1° 30′.0	0.3
71	0.3	116	1 26.4	0.5	81	0.2	241	1 30.3	0.2
72	0.3	122	1 26.9	0.5	82	0.2	270	1 30.5	0.2
73	0.3	129	1 27.4	0.4	83	0.1	309	1 30.7	0.2
74	0.3	137	1 27.8	0.4	84	0.1	360	1 30.9	0.1
75	+0.3	+146	+1 28.2	0.4	85	+0.1	+ 432	+1 31.0	0.1
76	0.2	156	1 28.6	0.4	86	0.1	539	1 31.1	0.1
77	0.2	167	1 29.0	0.3	87	+0.1	719	1 31.2	0.1
78	0.2	181	1 29.3	0.4	88	0.0	1078	1 31.3	0.1
79	0.2	197	1 29.7	0.3	89	0.0	+2156	1 31.4	0.0
80	+0.2	+217	+1 30.0		90	0.0	∞	+1 31.4	

J = 1° 31′.37 = Neigung des Mondaequators gegen die Ekliptik.

☋ = 180° + ☊ = Länge des absteigenden Knotens der Mondbahn auf der Ekliptik (siehe Tafel S. 88).

λ, β = Länge und Breite des Mittelpunktes der Mondscheibe, berechnet für den Beobachtungsort.

$$\Delta\lambda = \operatorname{tg}\frac{J^2}{2}\sin 2(\lambda - ☋)\; 3437'.75; \quad \frac{1}{a} = \frac{1}{\cos(\lambda - ☋)\sin J};$$

$$\operatorname{tg} B = \sin(\lambda - ☋)\operatorname{tg} J.$$

l_0 = Mittlere Länge des Mondes (siehe Tafel S. 88).

l', b' = Optische Libration der Mondmitte in selenocentrischer Länge und Breite.

$$l' = \lambda + \Delta\lambda - \frac{B - \beta}{\frac{1}{a}} - l_0.$$

$$b' = B - \beta.$$

Für $\lambda - ☋$ zwischen 90° und 180° gehe man mit dem Argument 180° — ($\lambda - ☋$) in die Tafel ein und nehme $\Delta\lambda$ und $\frac{1}{a}$ negativ.

Für $\lambda - ☋$ zwischen 180° und 270° gehe man mit dem Argument $\lambda - ☋ - 180°$ in die Tafel ein und nehme $\frac{1}{a}$ und B negativ.

Für $\lambda - ☋$ zwischen 270° und 360° gehe man mit dem Argument 360° — ($\lambda - ☋$) in die Tafel ein und nehme $\Delta\lambda$ und B negativ.

Bruchtheile des Jahres 1901,

für 0h Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn des annus fictus.

Monatstag	Januar		Februar		März		April		Mai		Juni	
	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch
1	0	0.0011	31	0.0860	59	0.1626	90	0.2475	120	0.3297	151	0.4145
2	1	0038	32	0887	60	1654	91	2503	121	3324	152	4173
3	2	0066	33	0915	61	1681	92	2530	122	3351	153	4200
4	3	0093	34	0942	62	1709	93	2557	123	3379	154	4228
5	4	0121	35	0969	63	1736	94	2585	124	3406	155	4255
6	5	0.0148	36	0.0997	64	0.1763	95	0.2612	125	0.3434	156	0.4282
7	6	0175	37	1024	65	1791	96	2640	126	3461	157	4310
8	7	0203	38	1052	66	1818	97	2667	127	3488	158	4337
9	8	0230	39	1079	67	1846	98	2694	128	3516	159	4364
10	9	0258	40	1106	68	1873	99	2722	129	3543	160	4392
11	10	0.0285	41	0.1134	69	0.1900	100	0.2749	130	0.3570	161	0.4419
12	11	0312	42	1161	70	1928	101	2776	131	3598	162	4447
13	12	0340	43	1188	71	1955	102	2804	132	3625	163	4474
14	13	0367	44	1216	72	1982	103	2831	133	3653	164	4501
15	14	0394	45	1243	73	2010	104	2859	134	3680	165	4529
16	15	0.0422	46	0.1271	74	0.2037	105	0.2886	135	0.3707	166	0.4556
17	16	0449	47	1298	75	2065	106	2913	136	3735	167	4583
18	17	0477	48	1325	76	2092	107	2941	137	3762	168	4611
19	18	0504	49	1353	77	2119	108	2968	138	3789	169	4638
20	19	0531	50	1380	78	2147	109	2995	139	3817	170	4666
21	20	0.0559	51	0.1407	79	0.2174	110	0.3023	140	0.3844	171	0.4693
22	21	0586	52	1435	80	2201	111	3050	141	3872	172	4720
23	22	0613	53	1462	81	2229	112	3078	142	3899	173	4748
24	23	0641	54	1490	82	2256	113	3105	143	3926	174	4775
25	24	0668	55	1517	83	2284	114	3132	144	3954	175	4802
26	25	0.0696	56	0.1544	84	0.2311	115	0.3160	145	0.3981	176	0.4830
27	26	0723	57	1572	85	2338	116	3187	146	4008	177	4857
28	27	0750	58	1599	86	2366	117	3214	147	4036	178	4885
29	28	0778	59	1626	87	2393	118	3242	148	4063	179	4912
30	29	0805			88	2420	119	3269	149	4091	180	4939
31	30	0.0832			89	0.2448	120	0.3297	150	0.4118	181	0.4967
32	31	0860			90	2475			151	4145		

Bruchtheile des Jahres 1901,

für 0^h Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn des annus fictus.

Monatstag	Juli Jahrestag	Juli Jahresbruch	August Jahrestag	August Jahresbruch	September Jahrestag	September Jahresbruch	October Jahrestag	October Jahresbruch	November Jahrestag	November Jahresbruch	December Jahrestag	December Jahresbruch
1	181	0.4967	212	0.5816	243	0.6664	273	0.7486	304	0.8334	334	0.9156
2	182	4994	213	5843	244	6692	274	7513	305	8362	335	9183
3	183	5022	214	5870	245	6719	275	7540	306	8389	336	9211
4	184	5049	215	5898	246	6746	276	7568	307	8417	337	9238
5	185	5076	216	5925	247	6774	277	7595	308	8444	338	9265
6	186	0.5104	217	0.5952	248	0.6801	278	0.7623	309	0.8471	339	0.9293
7	187	5131	218	5980	249	6829	279	7650	310	8499	340	9320
8	188	5158	219	6007	250	6856	280	7677	311	8526	341	9347
9	189	5186	220	6035	251	6883	281	7705	312	8553	342	9375
10	190	5213	221	6062	252	6911	282	7732	313	8581	343	9402
11	191	0.5241	222	0.6089	253	0.6938	283	0.7759	314	0.8608	344	0.9430
12	192	5268	223	6117	254	6965	284	7787	315	8636	345	9457
13	193	5295	224	6144	255	6993	285	7814	316	8663	346	9484
14	194	5323	225	6171	256	7020	286	7842	317	8690	347	9512
15	195	5350	226	6199	257	7048	287	7869	318	8718	348	9539
16	196	0.5377	227	0.6226	258	0.7075	288	0.7896	319	0.8745	349	0.9566
17	197	5405	228	6254	259	7102	289	7924	320	8772	350	9594
18	198	5432	229	6281	260	7130	290	7951	321	8800	351	9621
19	199	5460	230	6308	261	7157	291	7978	322	8827	352	9649
20	200	5487	231	6336	262	7184	292	8006	323	8855	353	9676
21	201	0.5514	232	0.6363	263	0.7212	293	0.8033	324	0.8882	354	0.9703
22	202	5542	233	6390	264	7239	294	8061	325	8909	355	9731
23	203	5569	234	6418	265	7267	295	8088	326	8937	356	9758
24	204	5596	235	6445	266	7294	296	8115	327	8964	357	9786
25	205	5624	236	6473	267	7321	297	8143	328	8992	358	9813
26	206	0.5651	237	0.6500	268	0.7349	298	0.8170	329	0.9019	359	0.9840
27	207	5679	238	6527	269	7376	299	8198	330	9046	360	9868
28	208	5706	239	6555	270	7404	300	8225	331	9074	361	9895
29	209	5733	240	6582	271	7431	301	8252	332	9101	362	9922
30	210	5761	241	6610	272	7458	302	8280	333	9128	363	9950
31	211	0.5788	242	0.6637	273	0.7486	303	0.8307	334	0.9156	364	0.9977
32	212	5816	243	6664			304	8334			365	1.0004

Julianische Periode.

Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs seit Anfang der Periode verflossenen Tage.

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21058	57583	94108	30633	67158	03683	40208	76733	13258	49783
4	22519	59044	95569	32094	68619	05144	41669	78194	14719	51244
8	23980	60505	97030	33555	70080	06605	43130	79655	16180	52705
12	25441	61966	98491	35016	71541	08066	44591	81116	17641	54166
16	26902	63427	99952	36477	73002	09527	46052	82577	19102	55627
20	28363	64888	01413	37938	74463	10988	47513	84038	20563	57088
24	29824	66349	02874	39399	75924	12449	48974	85499	22024	58549
28	31285	67810	04335	40860	77385	13910	50435	86960	23485	60010
32	32746	69271	05796	42321	78846	15371	51896	88421	24946	61471
36	34207	70732	07257	43782	80307	16832	53357	89882	26407	62932
40	35668	72193	08718	45243	81768	18293	54818	91343	27868	64393
44	37129	73654	10179	46704	83229	19754	56279	92804	29329	65854
48	38590	75115	11640	48165	84690	21215	57740	94265	30790	67315
52	40051	76576	13101	49626	86151	22676	59201	95726	32251	68776
56	41512	78037	14562	51087	87612	24137	60662	97187	33712	70237
60	42973	79498	16023	52548	89073	25598	62123	98648	35173	71698
64	44434	80959	17484	54009	90534	27059	63584	00109	36634	73159
68	45895	82420	18945	55470	91995	28520	65045	01570	38095	74620
72	47356	83881	20406	56931	93456	29981	66506	03031	39556	76081
76	48817	85342	21867	58392	94917	31442	67967	04492	41017	77542
80	50278	86803	23328	59853	96378	32903	69428	05953	42478	79003
84	51739	88264	24789	61314	97839	34364	70889	07414	43939	80464
88	53200	89625	26250	62775	99300	35825	72350	08875	45400	81925
92	54661	91186	27711	64236	00761	37286	73811	10336	46861	83386
96	56122	92647	29172	65697	02222	38747	75272	11797	48322	84847
100	57583	94108	30633	67158	03683	40208	76733	13258	49783	86308
	17	17	18	18	19	19	19	20	20	20

Jahr n. Chr.	Tage	Jahr n. Chr.	Tage
0	1721058	1580	2298153
1	1721424	1581	2298519
2	1721789	1582	2298884
3	1722154	1583	2299239
4	1722519	1584	2299604

Julianische Periode.

Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs seit Anfang der Periode verflossenen Tage.

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86308	22833	59358	95883	32408	68933	05448	41973*	78497*	15021*
4	87769	24294	60819	97344	33869	70394	06909	43433	79957	16481
8	89230	25755	62280	98805	35330	71855	08370	44894	81418	17942
12	90691	27216	63741	00266	36791	73316	09831	46355	82879	19403
16	92152	28677	65202	01727	38252	74777	11292	47816	84340	20864
20	93613	30138	66663	03188	39713	76238	12753	49277	85801	22325
24	95074	31599	68124	04649	41174	77699	14214	50738	87262	23786
28	96535	33060	69585	06110	42635	79160	15675	52199	88723	25247
32	97996	34521	71046	07571	44096	80621	17136	53660	90184	26708
36	99457	35982	72507	09032	45557	82082	18597	55121	91645	28169
40	00918	37443	73968	10493	47018	83543	20058	56582	93106	29630
44	02379	38904	75429	11954	48479	85004	21519	58043	94567	31091
48	03840	40365	76890	13415	49940	86465	22980	59504	96028	32552
52	05301	41826	78351	14876	51401	87926	24441	60965	97489	34013
56	06762	43287	79812	16337	52862	89387	25902	62426	98950	35474
60	08223	44748	81273	17798	54323	90848	27363	63887	00411	36935
64	09684	46209	82734	19259	55784	92309	28824	65348	01872	38396
68	11145	47670	84195	20720	57245	93770	30285	66809	03333	39857
72	12606	49131	85656	22181	58706	95231	31746	68270	04794	41318
76	14067	50592	87117	23642	60167	96692	33207	69731	06255	42779
80	15528	52053	88578	25103	61628	98153	34668	71192	07716	44240
84	16989	53514	90039	26564	63089	99604	36129	72653	09177	45701
88	18450	54975	91500	28025	64550	01065	37590	74114	10638	47162
92	19911	56436	92961	29486	66011	02526	39051	75575	12099	48623
96	21372	57897	94422	30947	67472	03987	40512	77036	13560	50084
100	22833	59358	95883	32408	68933	05448	41973*	78497*	15021*	51545
	21	21	21	22	22	23	23	23	24	24

Anm. Die mit * bezeichneten Jahre sind Gemeinjahre.

Jahr n. Chr.	Tage	Jahr n. Chr.	Tage	Jahr n. Chr.	Tage
1700	2341973	1800	2378497	1900	2415021
1701	2342338	1801	2378862	1901	2415386
1702	2342703	1802	2379227	1902	2415751
1703	2343068	1803	2379592	1903	2416116
1704	2343433	1804	2379957	1904	2416481

Hülfsgröfsen
zur Berechnung der Praecession nach Newcomb

von den Katalogepochen t_0 bis 1901.0.

$t = 1901.0.$

t_0	$m^s(t-t_0)$	$\log[n^s(t-t_0)]$	$\log[n''(t-t_0)]$
1790	+5^m 40.916^s	2.171380	3.347471
1800	5 10.213	2.130368	3.306459
1810	4 39.507	2.085079	3.261170
1825	3 53.446	2.006838	3.182929
1830	3 38.090	1.977278	3.153369
1835	+3 22.734	1.945559	3.121650
1836	3 19.664	1.938927	3.115018
1840	3 7.379	1.911340	3.087431
1842	3 1.237	1.896860	3.072951
1845	2 52.023	1.874193	3.050284
1850	+2 36.666	1.833571	3.009662
1855	2 21.309	1.78875	2.96484
1860	2 5.951	1.73878	2.91487
1864	1 53.664	1.69419	2.87028
1865	1 50.593	1.68229	2.85838
1870	+1 35.234	1.61734	2.79343
1872	1 29.091	1.58838	2.76447
1875	1 19.875	1.54095	2.71704
1880	1 4.515	1.44819	2.62428
1885	0 49.155	1.33009	2.50618
1890	+0 33.795	1.16736	2.34345
1895	0 18.434	0.90411	2.08020
1900	0 3.072	0.12595	1.30204

m und n sind die Newcomb'schen Constanten für die Epoche $\frac{1}{2}(t+t_0)$.

Ist α', δ' der genäherte Sternort für die Zeit $\frac{1}{2}(t+t_0)$,

so ist
$$\alpha = \alpha_0 + [m^s(t-t_0)] + [n^s(t-t_0)]\sin\alpha' \operatorname{tg}\delta'$$
$$\delta = \delta_0 + [n''(t-t_0)]\cos\alpha'.$$

Zur Verwandlung der Mittl. Zeit in Sternzeit.

Tafel I.

Red. auf St.-Zt. (m s)	Mittl. Zt. (h m s)
+ 0 0	0 0 0
0 10	1 0 52
0 20	2 1 45
0 30	3 2 37
0 40	4 3 30
0 50	5 4 22
+ 1 0	6 5 15
1 10	7 6 7
1 20	8 6 59
1 30	9 7 52
1 40	10 8 44
1 50	11 9 37
+ 2 0	12 10 29
2 10	13 11 21
2 20	14 12 14
2 30	15 13 6
2 40	16 13 59
2 50	17 14 51
+ 3 0	18 15 44
3 10	19 16 36
3 20	20 17 28
3 30	21 18 21
3 40	22 19 13
3 50	23 20 6
4 0	24 20 58

Tafel II.

Red. auf St.-Zt. (s)	Mittl. Zt. (m s)	Red. auf St.-Zt. (s)	Mittl. Zt. (m s)	Red. auf St.-Zt. (s)	Mittl. Zt. (m s)
+ 0.0	0 0	+ 4.0	24 21	+ 8.0	48 42
0.1	0 37	4.1	24 58	8.1	49 19
0.2	1 13	4.2	25 34	8.2	49 55
0.3	1 50	4.3	26 11	8.3	50 32
0.4	2 26	4.4	26 47	8.4	51 8
0.5	3 3	4.5	27 24	8.5	51 45
0.6	3 39	4.6	28 0	8.6	52 21
0.7	4 16	4.7	28 37	8.7	52 58
0.8	4 52	4.8	29 13	8.8	53 34
0.9	5 29	4.9	29 50	8.9	54 11
+ 1.0	6 5	+ 5.0	30 26	+ 9.0	54 47
1.1	6 42	5.1	31 3	9.1	55 24
1.2	7 18	5.2	31 39	9.2	56 0
1.3	7 55	5.3	32 16	9.3	56 37
1.4	8 31	5.4	32 52	9.4	57 13
1.5	9 8	5.5	33 29	9.5	57 50
1.6	9 44	5.6	34 5	9.6	58 26
1.7	10 21	5.7	34 42	9.7	59 3
1.8	10 57	5.8	35 18	9.8	59 39
1.9	11 34	5.9	35 55	9.9	60 16
+ 2.0	12 10	+ 6.0	36 31		
2.1	12 47	6.1	37 8		
2.2	13 23	6.2	37 44		
2.3	14 0	6.3	38 21		
2.4	14 36	6.4	38 57		
2.5	15 13	6.5	39 34		
2.6	15 49	6.6	40 10		
2.7	16 26	6.7	40 47		
2.8	17 2	6.8	41 23		
2.9	17 39	6.9	42 0		
+ 3.0	18 16	+ 7.0	42 37		
3.1	18 53	7.1	43 14		
3.2	19 29	7.2	43 50		
3.3	20 6	7.3	44 27		
3.4	20 42	7.4	45 3		
3.5	21 19	7.5	45 40		
3.6	21 55	7.6	46 16		
3.7	22 32	7.7	46 53		
3.8	23 8	7.8	47 29		
3.9	23 45	7.9	48 6		

Tafel III.

Red. auf St.-Zt. (s)	Mittl. Zt. (m s)
+ 0.01	0 4
0.02	0 7
0.03	0 11
0.04	0 15
0.05	0 18
0.06	0 22
0.07	0 26
0.08	0 29
0.09	0 33
0.10	0 37

Zur Verwandlung der Sternzeit in Mittl. Zeit.

Tafel I.

Red. auf Mittl. Zt. m s	Stern-Zt. h m s
— 0 0	0 0 0
0 10	1 1 2
0 20	2 2 5
0 30	3 3 7
0 40	4 4 10
0 50	5 5 12
— 1 0	6 6 15
1 10	7 7 17
1 20	8 8 19
1 30	9 9 22
1 40	10 10 24
1 50	11 11 27
— 2 0	12 12 29
2 10	13 13 31
2 20	14 14 34
2 30	15 15 36
2 40	16 16 39
2 50	17 17 41
— 3 0	18 18 44
3 10	19 19 46
3 20	20 20 48
3 30	21 21 51
3 40	22 22 53
3 50	23 23 56
4 0	24 24 58

Tafel II.

Red. auf Mittl. Zt. s	Stern-Zt. m s	Red. auf Mittl. Zt. s	Stern-Zt. m s	Red. auf Mittl. Zt. s	Stern-Zt. m s
— 0.0	0 0	— 4.0	24 25	— 8.0	48 50
0.1	0 37	4.1	25 2	8.1	49 27
0.2	1 13	4.2	25 38	8.2	50 3
0.3	1 50	4.3	26 15	8.3	50 40
0.4	2 26	4.4	26 51	8.4	51 16
0.5	3 3	4.5	27 28	8.5	51 53
0.6	3 40	4.6	28 5	8.6	52 30
0.7	4 16	4.7	28 41	8.7	53 6
0.8	4 53	4.8	29 18	8.8	53 43
0.9	5 30	4.9	29 55	8.9	54 20
— 1.0	6 6	— 5.0	30 31	— 9.0	54 56
1.1	6 43	5.1	31 8	9.1	55 33
1.2	7 19	5.2	31 44	9.2	56 9
1.3	7 56	5.3	32 21	9.3	56 46
1.4	8 32	5.4	32 57	9.4	57 22
1.5	9 9	5.5	33 34	9.5	57 59
1.6	9 46	5.6	34 11	9.6	58 36
1.7	10 22	5.7	34 47	9.7	59 12
1.8	10 59	5.8	35 24	9.8	59 49
1.9	11 36	5.9	36 1	9.9	60 26
— 2.0	12 12	— 6.0	36 37		
2.1	12 49	6.1	37 14		
2.2	13 25	6.2	37 50		
2.3	14 2	6.3	38 27		
2.4	14 38	6.4	39 3		
2.5	15 15	6.5	39 40		
2.6	15 52	6.6	40 17		
2.7	16 28	6.7	40 53		
2.8	17 5	6.8	41 30		
2.9	17 42	6.9	42 7		
— 3.0	18 19	— 7.0	42 44		
3.1	18 56	7.1	43 21		
3.2	19 32	7.2	43 57		
3.3	20 9	7.3	44 34		
3.4	20 45	7.4	45 10		
3.5	21 22	7.5	45 47		
3.6	21 59	7.6	46 24		
3.7	22 35	7.7	47 0		
3.8	23 12	7.8	47 37		
3.9	23 49	7.9	48 14		

Tafel III.

s	m s
— 0.01	0 4
0.02	0 7
0.03	0 11
0.04	0 15
0.05	0 18
0.06	0 22
0.07	0 26
0.08	0 29
0.09	0 33
0.10	0 37

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
	m	° ′ ″	h m s	s	° ′ ″	
Abastuman . . .	1370	+41 42 24	−1 57 50	−19.36	+41 30 58	9.999454
Åbo	—	+60 26 56.8	−0 35 31.50	− 5.84	+60 17 3.1	9.998902
Adelaide	43	−34 55 33.8	−8 20 45.51	−82.26	−34 44 46.2	9.999530
Albany (N. Stw.)[1]	40	+42 39 12.6	+5 48 41.23	+57.28	+42 27 44.5	9.999339
Alfred Centre N.Y.	556	+42 15 19.8	+6 4 42.00	+59.91	+42 3 52.5	9.999384
Algier (N. Stw.)[2] .	20	+36 47 50	+0 41 26.3	+ 6.81	+36 36 48	9.999483
Allegheny Pa. . .	349	+40 27 41.6	+6 13 37.84	+61.38	+40 16 20.0	9.999415
Altona	—	+53 32 45.3	+0 13 48.56	+ 2.27	+53 21 44.5	9.999063
Amherst Mass. . .	122	+42 22 17.1	+5 43 39.58	+56.46	+42 10 49.6	9.999351
Annapolis Md. .	—	+38 58 53.5	+5 59 31.40	+59.06	+38 47 38.5	9.999428
Ann Arbor Mich.	285	+42 16 48.0	+6 28 30.10	+63.82	+42 5 20.7	9.999364
Arcetri[3]	186	+43 45 14.4	+0 8 31.8	+ 1.40	+43 33 44.5	9.999321
Arequipa	2400	−16 24 0	+5 39 5	+55.70	−16 17 47	0.000049
Armagh	61	+54 21 12.7	+1 20 10.3	+13.17	+54 10 17.8	9.999047
Athen	—	+37 58 20.7	−0 41 20	− 6.79	+37 47 11.3	9.999453
Bamberg[4] . . .	—	+49 53 6.0	+0 10 1.23	+ 1.65	+49 41 45.0	9.999153
Beloit Wisc. . . .	—	+42 30 9	+6 49 42.3	+67.31	+42 18 41	9.999340
Bergen	—	+60 23 54	+0 32 22.1	+ 5.32	+60 14 0	9.998903
Berkeley Calif. . .	—	+37 52 23.6	+9 2 37.63	+89.14	+37 41 14.7	9.999455
Berlin[5]	47	+52 30 16.7	0 0 0.00	0.00	+52 19 9.0	9.999091
Berlin (Urania) . .	—	+52 31 30.7	+0 0 7.40	+ 0.02	+52 20 23.2	9.999088
Bern	573	+46 57 8.7	+0 23 49.25	+ 3.91	+46 45 39.5	9.999266
Besançon	312	+47 14 59.0	+0 29 37.7	+ 4.87	+47 3 30.3	9.999241
Bethlehem Pa.[6] .	—	+40 36 23.5	+5 55 6.81	+58.34	+40 25 1.3	9.999388
Birr Castle[7] . .	—	+53 5 47	+1 25 15.8	+14.00	+52 54 43	9.999073
Bogota	2700	+ 4 35 48	+5 50 34	+57.59	+ 4 33 58	0.000175
Bologna	—	+44 29 47	+0 8 10.0	+ 1.34	+44 18 16	9.999289
Bombay	—	+18 54 0	−3 57 40.79	−39.05	+18 46 58	9.999849
Bonn	62	+50 43 45.0	+0 25 11.62	+ 4.14	+50 32 27.7	9.999136
Bordeaux	73	+44 50 7.2	+0 55 40.32	+ 9.14	+44 38 36.6	9.999286
Bothkamp[8] . . .	32	+54 12 9.6	+0 13 3.7	+ 2.15	+54 1 13.6	9.999048
Bremen[9]	—	+53 4 36	+0 18 20	+ 3.01	+52 53 32	9.999074
Breslau	147	+51 6 56.5	−0 14 33.93	− 2.39	+50 55 41.1	9.999132

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″.0 nördlich, 7ˢ.10 östlich.
[2]) Alte Sternwarte 3′.8 südlich, 8ˢ östlich.
[3]) Seit October 1872, früher in Florenz.
[4]) Remeis' Sternwarte.
[5]) Seit 1835. Alte Sternwarte 56″.4 nördlich, 0ˢ.39 westlich.
[6]) Sayre Observatory, auch South-Bethlehem.
[7]) Earl of Rosse.
[8]) Herr von Bülow.
[9]) Olbers.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
	m	° ′ ″	h m s	s	° ′ ″	
Brisbane	—	−27 28 0	−9 18 31.5	−91.75	−27 18 36	9.999693
Brüssel (Alte Stw.)	56	+50 51 10.7	+0 36 6.2	+ 5.93	+50 39 54.0	9.999133
Brüssel (Neue Stw.)[1]	102	+50 47 53	+0 36 8.1	+ 5.94	+50 36 36	9.999137
Budapest[2]	—	+47 29 34.7	−0 22 40.5	− 3.73	+47 18 6.5	9.999213
Cambridge Engl.	28	+52 12 51.6	+0 53 12.16	+ 8.74	+52 1 42.2	9.999097
Cambridge Mass.[3]	24	+42 22 47.6	+5 38 5.89	+55.54	+42 11 20.1	9.999345
Catania	60	+37 30 13.3	−0 6 41	− 1.10	+37 19 6.7	9.999468
Chapultepec[4]	—	+19 25 17.5	+7 30 13.15	+73.96	+19 18 5.5	9.999841
Charkow	—	+50 0 10.2	−1 31 19.8	−15.01	+49 48 49.7	9.999150
Charlottesville Virg.[5]	—	+38 2 1.2	+6 7 40.13	+60.40	+37 50 51.4	9.999451
Chicago Ill. (Alte Stw.)[6]	—	+41 50 1.0	+6 44 1.69	+66.37	+41 38 34.8	9.999357
Chicago Ill. (Neue Stw.)	—	+42 3	+6 44 17	+66.41	+41 52	9.999351
Christiania	25	+59 54 43.7	+0 10 41.27	+ 1.76	+59 44 43.5	9.998916
Cincinnati Ohio (A.Stw.)	—	+39 6 26.5	+6 31 33.96	+64.32	+38 55 10.9	9.999425
Cincinnati (N. Stw.)[7]	263	+39 8 19.5	+6 31 16.20	+64.27	+38 57 3.7	9.999442
Clinton N. Y.[8]	276	+43 3 16.5	+5 55 12.35	+58.35	+42 51 47.6	9.999345
Coimbra	99	+40 12 25.8	+1 27 9.0	+14.32	+40 1 5.2	9.999405
Columbia Missouri[9]	225	+38 56 51.7	+7 2 53.24	+69.47	+38 45 36.9	9.999444
Cordoba	439	−31 25 15.5	+5 10 23.1	+50.99	−31 15 2.0	9.999638
Danzig	3	+54 21 18.0	−0 21 4.7	− 3.46	+54 10 23.1	9.999043
Denver Col.[10]	1650	+39 40 36.4	+7 53 22.54	+77.76	+39 29 18.1	9.999523
Dorpat	73	+58 22 47.1	−0 53 18.6	− 8.76	+58 12 29.5	9.998953
Dresden (Neue Stw.)[11]	121	+51 2 16.8	−0 1 19.94	− 0.22	+50 51 1.0	9.999132
Dublin	48	+53 23 13.0	+1 18 56.0	+12.97	+53 12 11.1	9.999069
Düsseldorf (Bilk)	26	+51 12 25.0	+0 26 29.9	+ 4.35	+51 1 10.0	9.999122
Dunecht[12]	141	+57 9 36	+1 3 15	+10.39	+56 59 6	9.998986
Durham	—	+54 46 6.2	+0 59 54.6	+ 9.84	+54 35 14.6	9.999033
Edinburg	106	+55 57 23.2	+1 6 17.96	+10.89	+55 46 41.7	9.999012
Edinburg (Blackf. Hill)	134	+55 55 28.0	+1 6 18.9	+10.89	+55 44 46.2	9.999014
Florenz[13]	73	+43 46 4.1	+0 8 33.0	+ 1.40	+43 34 34.2	9.999313
Genf	407	+46 11 58.8	+0 28 58.15	+ 4.76	+46 0 28.7	9.999274
Genua (Mar. Stw.)	—	+44 25 9.3	+0 17 53.5	+ 2.94	+44 13 38.8	9.999291
Georgetown D. C.	46	+38 54 26.2	+6 1 53.20	+59.45	+38 43 11.6	9.999433

1) Uccle. 2) Geod. Observ. des Polytechnikums. 3) Harvard College Observatory.
4) Alte Sternwarte, 1883 nach Tacubaya verlegt.
5) Leander Mc. Cormick Obs. der University of Virginia.
6) Dearborn Observatory, 1887 geschlossen. 7) Mount Lookout, seit 1873.
8) Litchfield Observatory. 9) Laws Observatory. 10) University Park, Chamberlin Observatory.
11) v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte $14''.2$ nördlich, $1^s.57$ westlich.
12) Earl of Crawford. 13) 1872 nach Arcetri verlegt.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
	m	° ′ ″	h m s	s	° ′ ″	
Glasgow Schottl. . . .	—	+55 52 42.6	+1 10 45.46	+11.62	+55 42 0.4	9.999007
Glasgow Missouri . . .	228	+39 13 45.6	+7 4 52.93	+69.80	+39 2 29.4	9.999438
Göttingen	161	+51 31 47.9	+0 13 48.5	+ 2.27	+51 20 34.6	9.999123
Gohlis[1])	108	+51 21 35.0	+0 4 5.26	+ 0.67	+51 10 20.8	9.999123
Gotha (Neue Stw.) [2]) . .	320	+50 56 37.5	+0 10 44.35	+ 1.76	+50 45 21.2	9.999149
Graz	375	+47 4 37.2	−0 8 13	− 1.35	+46 53 8.2	9.999250
Greenwich	47	+51 28 38.1	+0 53 34.91	+ 8.80	+51 17 24.5	9.999116
Grignon	—	+47 33 42	+0 35 57	+ 5.91	+47 22 14	9.999212
Hamburg	25	+53 33 7.0	+0 13 41.1	+ 2.25	+53 22 6.2	9.999064
Hanover N. H.	—	+43 42 15.2	+5 42 42.87	+56.30	+43 30 45.4	9.999310
Harrow[3])	66	+51 34 47.4	+0 55 54.8	+ 9.19	+51 23 33.5	9.999115
Hastings on Huds. N.Y.[4])	—	+40 59 25	+5 49 4.6	+57.35	+40 48 1	9.999378
Haverford	—	+40 0 36.5	+5 54 47.66	+58.28	+39 49 16.7	9.999403
Heidelberg[5])	—	+49 24 35	+0 18 46.4	+ 3.08	+49 13 12	9.999165
Heidelberg (Königstuhl)	570	+49 23 57.5	+0 18 40.86	+ 3.07	+49 12 34.9	9.999204
St. Helena	210	−15 55 26	+1 16 27.1	+12.56	−15 49 23	9.999906
Helsingfors	38	+60 9 42.6	−0 46 14.23	− 7.60	+59 59 45.4	9.998912
Herény Ungarn[6]) . . .	229	+47 15 47.4	−0 12 49.8	− 2.11	+47 4 18.7	9.999235
Hongkong	—	+22 18 12.2	−6 43 7.0	−66.22	+22 10 8.4	9.999792
Hudson Ohio	—	+41 14 42.6	+6 19 19.06	+62.31	+41 3 18.2	9.999372
Ipswich (Orwell Park)[7]) .	—	+52 0 33	+0 48 39.1	+ 7.99	+51 49 22	9.999100
Jena (Univers.)	156	+50 55 35.6	+0 7 14.1	+ 1.19	+50 44 19.2	9.999137
Jena[8])	174	+50 56 15.7	+0 7 12.89	+ 1.19	+50 44 59.4	9.999139
Kairo	—	+30 4 38.2	−1 11 34.00	−11.76	+29 54 40.2	9.999638
Kalocsa[9])	110	+46 31 42	−0 22 19.4	− 3.67	+46 20 12	9.999245
Kapstadt	16	−33 56 3.2	−0 20 19.83	− 3.34	−33 45 24.3	9.999551
Karlsruhe[10])	110	+49 0 29.6	+0 19 58.4	+ 3.28	+48 49 5.4	9.999183
Kazan	70	+55 47 24.2	−2 22 54.16	−23.48	+55 36 41.2	9.999014
Kew	10	+51 28 6	+0 54 50.0	+ 9.01	+51 16 52	9.999115
Kiel	47	+54 20 28.5	+0 12 59.22	+ 2.13	+54 9 33.5	9.999047
Kiew	179	+50 27 12.5	−1 8 25.80	−11.24	+50 15 53.9	9.999151
Kis Kartal[11])	—	+47 41 54.8	−0 24 36.8	− 4.04	+47 30 27.0	9.999208
Königsberg	22	+54 42 50.6	−0 28 24.20	− 4.67	+54 31 58.6	9.999036

[1]) Hr. Winkler, August 1887 nach Jena verlegt.
[2]) Seit 1853, früher Seeberg.
[3]) Col. Tupman.
[4]) Dr. Draper.
[5]) Prof. Max Wolf.
[6]) Herren Eug. und Alex. von Gothard.
[7]) Col. Tomline.
[8]) Hr. Winkler.
[9]) Erzbischöfl. Haynald'sche Sternwarte.
[10]) 1896 nach Heidelberg verlegt.
[11]) Baron von Podmaniczky.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
	m	° ′ ″	h m s	s	° ′ ″	
Kopenhagen (N.Stw.)[1]	14	+55 41 12.9	+0 3 15.99	+ 0.54	+55 30 29.0	9.999012
Krakau	221	+50 3 51.9	−0 26 15.47	− 4.31	+49 52 31.6	9.999164
Kremsmünster . .	384	+48 3 23.1	−0 2 56.73	− 0.48	+47 51 56.1	9.999225
La Plata	—	−34 54 30	+4 45 11.9	+46.85	−34 43 43	9.999527
Leiden (Neue Stw.)[2] .	6	+52 9 20.2	+0 35 38.56	+ 5.86	+51 58 10.4	9.999097
Leipzig (Neue Stw.)[3] .	119	+51 20 5.9	+0 4 0.89	+ 0.66	+51 8 52.0	9.999125
Lemberg	338	+49 50 11	−0 42 29	− 6.98	+49 38 50	9.999177
Leyton[4]	—	+51 34 34.0	+0 53 35.8	+ 8.80	+51 23 21.0	9.999111
Lissabon (Neue Stw.) .	94	+38 42 31.3	+1 30 19.58	+14.84	+38 31 17.7	9.999441
Lissabon (Mar. Stw.) .	—	+38 42 17.6	+1 30 8.4	+14.81	+38 31 4.0	9.999435
Liverpool (Neue Stw.) .	61	+53 24 3.8	+1 5 52.1	+10.82	+53 13 2.0	9.999070
Liverpool (Alte Stw.) .	—	+53 24 47.8	+1 5 35.0	+10.77	+53 13 46.1	9.999066
London[5]	—	+51 31 30	+0 54 12.0	+ 8.90	+51 20 17	9.999112
Lübeck	—	+53 51 31.1	+0 10 49.2	+ 1.78	+53 40 32.5	9.999055
Lund	34	+55 41 52.0	+0 0 49.89	+ 0.14	+55 31 8.3	9.999013
Lussinpiccolo[6] . .	—	+44 32 11	−0 4 17.5	− 0.70	+44 20 40	9.999288
Lüttich Ougrée . .	128	+50 37 6	+0 31 23	+ 5.15	+50 25 48	9.999144
Lyon	299	+45 41 40.8	+0 34 26.8	+ 5.66	+45 30 10.3	9.999279
Madison Wisc.[7] .	293	+43 4 36.7	+6 51 12.80	+67.55	+42 53 7.8	9.999345
Madras	7	+13 4 8.1	−4 27 24.42	−43.93	+12 59 4.8	9.999926
Madrid	655	+40 24 29.7	+1 8 19.92	+11.23	+40 13 8.3	9.999437
Mailand	120	+45 27 59.4	+0 16 48.94	+ 2.76	+45 16 30.1	9.999273
Manila	—	+14 35 25	−7 10 15	−70.68	+14 29 49	9.999909
Mannheim	98	+49 29 11.0	+0 19 44.39	+ 3.24	+49 17 48.5	9.999170
Marburg	248	+50 48 46.9	+0 18 29.9	+ 3.04	+50 37 30.0	9.999147
Markree[8]	45	+54 10 31.7	+1 27 23.3	+14.36	+53 59 35.5	9.999050
Marseille (N. Stw.)[9]	75	+43 18 19.1	+0 32 0.27	+ 5.26	+43 6 49.8	9.999325
Melbourne	28	−37 49 53.1	−8 46 19.26	−86.46	−37 38 44.5	9.999458
Meudon	—	+48 48 18	+0 44 39.3	+ 7.34	+48 36 53	9.999180
Mexico	2277	+19 26 1.3	+7 30 1.58	+73.93	+19 18 49.0	9.999995
Middletown Conn. .	—	+41 33 16.0	+5 44 12.1	+56.54	+41 21 50.6	9.999364
Modena	63	+44 38 52.8	+0 9 52.0	+ 1.62	+44 27 22.2	9.999289
Moncalieri	—	+44 59 51	+0 22 46	+ 3.74	+44 48 20	9.999277

1) Alte Sternwarte 20″.3 südlich, 0s.03 westlich.
2) Seit 1860. Alte Sternwarte 8″.0 nördlich, 0s.42 östlich.
3) Seit 1861. Alte Sternwarte 14″.2 nördlich, 4s.00 westlich.
4) J. Gurney Barclay.
5) Regents Park, G. Bishop 1836—61.
6) Manora-Sternwarte.
7) Washburn Observatory.
8) Col. Cooper.
9) Seit 1866. Alte Sternwarte 30″.1 südlich, 6s.2 westlich; 29m.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
	m	° ′ ″	h m s	s	° ′ ″	
Montreal Canada . .	20	+45 30 17.0	+5 47 53.45	+57.15	+45 18 46.4	9.999265
Mt. Hamilton Calif.[1])	1283	+37 20 25.6	+9 0 9.72	+88.74	+37 9 20.1	9.999556
Moskau	142	+55 45 19.8	−1 36 42.26	−15.89	+55 34 36.5	9.999019
München	529	+48 8 45.5	+0 7 8.79	+ 1.17	+47 57 18.8	9.999233
Nashville Tenn.[2]) .	—	+36 8 58.2	+6 40 47.68	+65.84	+35 58 0.9	9.999497
Natal	—	−29 50 47.0	−1 10 26.3	−11.57	−29 40 51.7	9.999643
Neapel (Capo di M.) . .	164	+40 51 45.4	−0 3 26.8	− 0.57	+40 40 22.3	9.999392
Neuchâtel	488	+46 59 50.6	+0 25 45.05	+ 4.23	+46 48 21.5	9.999259
New Haven Conn.[3])	—	+41 19 24.0	+5 45 15.40	+56.72	+41 7 59.3	9.999369
New York N. Y.[4]) .	—	+40 43 48.5	+5 49 31.53	+57.42	+40 32 25.8	9.999384
New York (Columb. C.)	—	+40 45 23.1	+5 49 28.60	+57.41	+40 34 0.3	9.999384
Nicolajew	55	+46 58 20.6	−1 14 18.96	−12.21	+46 46 51.4	9.999230
Nizza (Mont Gros)[5]) .	378	+43 43 16.9	+0 24 22.66	+ 4.01	+43 31 47.0	9.999335
Northfield Minnes.[6])	286	+44 27 41	+7 6 10.9	+70.01	+44 16 10	9.999310
Oakland Californ.[7]) .	11	+37 48 5	+9 2 41.2	+89.15	+37 36 57	9.999458
Odessa	55	+46 28 36.2	−1 9 27.5	−11.41	+46 17 6.3	9.999243
Ogden Utah	—	+41 13 8.6	+8 21 34.52	+82.40	+41 1 44.3	9.999372
O-Gyalla (N. Stw.)[8])	—	+47 52 27.3	−0 19 10.69	− 3.15	+47 40 59.9	9.999204
Olmütz[9])	—	+49 35 43	−0 15 33	− 2.55	+49 24 21	9.999160
Oxford (Radcl. Obs.) .	65	+51 45 36.0	+0 58 37.5	+ 9.63	+51 34 24.0	9.999111
Oxford (Univers.) . .	64	+51 45 34.2	+0 58 35.3	+ 9.62	+51 34 22.2	9.999110
Oxford Missouri . .	—	+34 22 12.6	+6 51 42.0	+67.63	+34 11 29.7	9.999540
Padua	31	+45 24 2.5	+0 6 5.71	+ 1.00	+45 12 31.9	9.999268
Palermo	76	+38 6 44.0	+0 0 9.0	+ 0.02	+37 55 33.8	9.999454
Paramatta	—	−33 48 49.8	−9 10 25.3	−90.42	−33 38 12.0	9.999553
Paris (Obs. national) .	59	+48 50 11.2	+0 44 13.88	+ 7.27	+48 38 46.4	9.999183
Paris (Montsouris) . .	—	+48 49 18.0	+0 44 14.2	+ 7.27	+48 37 53.2	9.999180
Petersburg (Akademie)	20	+59 56 29.7	−1 7 38.55	−11.11	+59 46 29.9	9.998915
Petersburg (Univers.)	4	+59 56 32.0	−1 7 36.5	−11.11	+59 46 32.2	9.998914
Philadelphia Pa.[10])	—	+39 57 7.5	+5 54 13.36	+58.19	+39 45 47.9	9.999404
Plonsk[11])	—	+52 37 40.0	−0 27 57.1	− 4.59	+52 26 33.1	9.999085
Pola	32	+44 51 48.6	−0 1 48.00	− 0.30	+44 40 18.0	9.999282
Portsmouth	—	+50 48 3	+0 57 59.7	+ 9.53	+50 36 46	9.999130

[1]) Lick Observatory.
[2]) Vanderbilt Observatory.
[3]) Yale University. Alte Sternwarte 45″.8 südlich, 1s.58 westlich.
[4]) Lewis Rutherfurd.
[5]) Herr R. Bischofsheim.
[6]) Goodsell Observatory.
[7]) Chabol Observatory.
[8]) Dr. von Konkoly.
[9]) Herr von Unkrechtsberg.
[10]) Flower Obs. (Univ. of Pennsylvania).
[11]) Dr. Jędrzejewicz.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
	m	° ′ ″	h m s	s	° ′ ″	
Potsdam	97	+52 22 56.0	+0 1 19.0	+ 0.22	+52 11 47.6	9.999098
Poughkeepsie N. Y.	—	+41 41 18	+5 49 8.5	+57.36	+41 29 52	9.999360
Prag (Univ.-Stw.) . . .	197	+50 5 18.5	−0 4 6.6	— 0.68	+49 53 58.3	9.999161
Prag [1])	—	+50 4 24	−0 4 13	— 0.69	+49 53 4	9.999148
Princeton N.Y. (N.Stw.) [2])	76	+40 20 55.8	+5 52 14.40	+57.86	+40 9 34.6	9.999399
Providence R. J. [3]) .	—	+41 49 46.4	+5 39 12.49	+55.72	+41 38 20.2	9.999357
Pulkowa	75	+59 46 18.7	−1 7 43.74	−11.13	+59 36 16.9	9.998922
Quebec Canada . .	—	+46 48 17.3	+5 38 24.2	+55.59	+46 36 47.9	9.999231
Quito	2846	— 0 14 0	+6 8 55	+60.60	— 0 13 54	0.000194
Riga (Polytechnikum) .	—	+56 57 7	−0 42 53	— 7.04	+56 46 35	9.998981
Rio de Janeiro . .	63	−22 54 23.7	+3 46 16.32	+37.17	−22 46 9.7	9.999786
Rochester N. Y. [4]) .	172	+43 9 16.8	+6 3 56.74	+59.78	+42 57 47.7	9.999335
Rom (Coll. Rom.) . . .	59	+41 53 53.6	+0 3 39.36	+ 0.61	+41 42 27.3	9.999359
Rom (Capitol)	63	+41 53 33.5	+0 3 38.39	+ 0.60	+41 42 7.2	9.999359
Rom (Vatican) Mer.-Kr.	—	+41 54 16.8	+0 3 45.38	+ 0.62	+41 42 50.4	9.999355
Rousdon	—	+50 42 38	+1 5 33.8	+10.76	+50 31 21	9.999132
Rugby	—	+52 22 7	+0 58 36.9	+ 9.63	+52 10 59	9.999091
St. Louis Missouri .	—	+38 38 3.6	+6 54 24.02	+68.08	+38 26 50.4	9.999437
San Fernando . . .	31	+36 27 40.4	+1 18 24.17	+12.88	+36 16 40.8	9.999492
San Francisco Calif. [5])	—	+37 47 28.0	+9 3 17.68	+89.25	+37 36 19.7	9.999457
Santiago (Neue Stw.) .	—	−33 26 42.0	+5 36 21.2	+55.24	−33 16 7.6	9.999561
Santiago (Alte Stw.) .	619	−33 26 25.4	+5 36 11.7	+55.22	−33 15 51.0	9.999603
Scarborough . . .	—	+54 16 30	+0 55 13.8	+ 9.07	+54 5 36	9.999045
Schwerin	—	+53 37 37.9	+0 7 54.00	+ 1.30	+53 26 37.7	9.999061
Seeberg [6])	356	+50 56 5.2	+0 10 39.75	+ 1.75	+50 44 48.9	9.999151
South Hadley Mass.	—	+42 15 18.2	+5 43 55.25	+56.50	+42 3 50.9	9.999346
Speyer	—	+49 18 55.2	+0 19 49.29	+ 3.26	+49 7 32.0	9.999168
Stockholm	44	+59 20 34.0	−0 18 39.07	— 3.06	+59 10 27.2	9.998930
Stonyhurst	—	+53 50 40.0	+1 3 27.6	+10.42	+53 39 41.3	9.999055
Strafsburg (Prov. Stw.)	161	+48 34 54.0	+0 22 32.41	+ 3.70	+48 23 28.5	9.999197
Strafsburg (Neue Stw.)	144	+48 35 0.2	+0 22 30.25	+ 3.70	+48 23 34.7	9.999196
Sydney	44	−33 51 41.1	−9 11 14.69	−90.55	−33 41 2.8	9.999555
Tacubaya [7])	2322	+19 24 17.5	+7 30 21.40	+73.98	+19 17 5.8	9.999999

1) Herr Safarik. 2) Alte Sternwarte 2″.0 nördlich, 1s.94 östlich; 65m.
3) Seagrave; Ladd Observatory 1s.57 östlich, 35″ nördlich.
4) Lewis Swift. 5) Davidson Observatory.
6) Alte Sternwarte, 1853 nach Gotha verlegt.
7) Seit März 1883, früher in Chapultepec.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
	m	° ′ ″	h m s	s	° ′ ″	
Taschkent	457	+41 19 31.3	— 3 43 35.89	— 36.73	+41 8 6.6	9.999400
Teramo[1])	—	+42 39 27	— 0 1 21	— 0.22	+42 27 59	9.999336
Tokio	—	+35 39 17.5	— 8 25 23.1	— 83.02	+35 28 24.0	9.999509
Toronto	—	+43 39 35.9	+ 6 11 9.56	+ 60.97	+43 28 6.1	9.999311
Toulouse	194	+43 36 45.3	+ 0 47 43.8	+ 7.84	+43 25 15.6	9.999325
Triest	23	+45 38 45.4	— 0 1 28.10	— 0.24	+45 27 14.9	9.999262
Troy N. Y.	—	+42 43 52.9	+ 5 48 19.5	+ 57.22	+42 32 24.6	9.999334
Tulse Hill[2])	53	+51 26 47.0	+ 0 54 2.6	+ 8.88	+51 15 33.3	9.999118
Turin	270	+45 4 7.3	+ 0 22 47.68	+ 3.74	+44 52 36.7	9.999293
Twickenham[3])	—	+51 27 4.2	+ 0 54 48.0	+ 9.00	+51 15 50.5	9.999114
Upsala (Neue Sternw.)	21	+59 51 29.4	— 0 16 55.32	— 2.78	+59 41 28.6	9.998916
Utrecht	12	+52 5 9.5	+ 0 33 3.2	+ 5.43	+51 53 59.3	9.999099
Venedig	—	+45 25 49.5	+ 0 4 10.0	+ 0.68	+45 14 18.9	9.999266
Warschau	110	+52 13 5.7	— 0 30 32.42	— 5.02	+52 1 56.3	9.999102
Washington (A. Stw.)	31	+38 53 38.9	+ 6 1 47.00	+ 59.43	+38 42 24.3	9.999432
Washington (N. Stw.)	—	+38 55 14.8	+ 6 1 50.67	+ 59.44	+38 44 0.1	9.999430
Wellington N. Seeland[4])	—	—41 18 0.6	—10 45 31.61	—106.05	—41 6 36.0	9.999370
West Point N.Y. (N. Stw.)[5])	—	+41 23 22	+ 5 49 25.5	+ 57.40	+41 11 57	9.999368
Whitestone N. Y.[6])	—	+40 47 21.6	+ 5 48 42.6	+ 57.28	+40 35 58.6	9.999383
Wien (Alte Sternw.)	167	+48 12 35.5	— 0 11 56.79	— 1.96	+48 1 8.9	9.999206
Wien (Josephstadt)[7])	214	+48 12 53.8	— 0 11 50.4	— 1.94	+48 1 27.2	9.999210
Wien (Neue Sternw.)	240	+48 13 55.4	— 0 11 46.58	— 1.93	+48 2 28.9	9.999211
Wien (Ottakring)[8])	285	+48 12 46.7	— 0 11 36.20	— 1.91	+48 1 20.6	9.999215
Wilhelmshaven	9	+53 31 52.0	+ 0 20 59.70	+ 3.45	+53 20 51.1	9.999064
Williams-Bay Wisc.[9])	—	+42 34 15	+ 6 47 49	+ 66.99	+42 22 47	9.999338
Williamstown Mass.	—	+42 42 49	+ 5 46 28.4	+ 56.92	+42 31 21	9.999335
Williamstown Vict.	—	—37 52 7.2	— 8 46 3.2	— 86.42	—37 40 58.4	9.999455
Wilna	122	+54 40 59.1	— 0 47 34.05	— 7.81	+54 30 6.8	9.999043
Windsor N. S. W.[10])	—	—33 36 30.8	— 9 9 45.86	— 90.31	—33 25 54.9	9.999558
Zürich	470	+47 22 40.0	+ 0 19 22.5	+ 3.18	+47 11 11.5	9.999248

[1]) Dr. V. Cerulli.
[2]) W. Huggins.
[3]) G. Bishop's Observatory.
[4]) Mt. Cook Observatory.
[5]) Seit 1883. Alte Sternwarte 9″ nördlich, $1^s.2$ östlich.
[6]) Field Observatory.
[7]) von Oppolzer's Sternwarte.
[8]) M. v. Kuffner.
[9]) Yerkes Observatory.
[10]) J. Tebbutt. Neue Sternwarte, 0″.4 südlich von der alten.

Nr. und Name	Opposition 1899	Gr.	m_0	g	Epoche und Osculation	Mittl. Aequ.	M	ω
							° ′ ″	° ′ ″
1 Ceres	April 27	7.2	7.4	4.0	1899 April 12.0	1900.0	51 44 19.1	71 2 18.5
2 Pallas	April 14	7.5	8.0	4.5	1899 April 12.0	1900.0	53 59 21.4	309 20 29.3
3 Juno	Juni 14	9.8	8.7	5.5	1899 Juni 23.0	1900.0	225 9 57.4	244 42 0.3
4 Vesta	Oct. 18	6.9	6.5	4.0	1899 Oct. 9.0	1900.0	119 38 18.4	148 21 23.9
5 Astraea	Dec. 34	8.8	9.9	6.9	1898 Sept. 11.0	1900.0	224 4 1.2	353 27 42.1
6 Hebe	März 28	9.5	8.5	5.8	1899 März 30.0	1900.0	164 38 56.0	236 37 51.0
7 Iris	Oct. 13	6.8	8.4	5.8	1850 Jan. 0.0*)	d. Ep.	166 7 9.0	141 35 25.3
8 Flora	Sept. 29	7.9	8.9	6.8	1848 Jan. 1.0*)	d. Ep.	35 52 49.3	282 38 15.6
9 Metis	Febr. 21	8.7	8.9	6.3	1858 Juni 30.0*)	d. Ep.	57 4 34.7	2 32 16.9
10 Hygiea	März 6	9.2	9.5	5.4	1898 Dec. 20.0	1900.0	291 20 17.9	308 58 5.7
11 Parthenope	Jan. 29	9.8	9.3	6.5	1899 Jan. 29.0	1900.0	169 8 20.8	193 38 14.9
12 Victoria	März 8	10.3	9.7	7.2	1851 Jan. 0.0*)	d. Ep.	66 2 39.9	66 4 43.3
13 Egeria	Aug. 30	10.2	9.7	6.7	1850 Jan. 0.0*)	d. Ep.	210 46 34.3	76 58 23.7
14 Irene	Dec. 17	9.6	9.7	6.6	1898 Oct. 1.0	1900.0	180 47 34.9	92 3 15.9
15 Eunomia	Oct. 8	7.5	8.6	5.4	1854 Jan. 0.0*)	d. Ep.	122 5 31.5	93 59 46.0
16 Psyche	Juli 25	9.3	9.6	5.9	1899 Juli 27.0	1900.0	301 1 33.0	226 3 22.5
17 Thetis	Mai 15	9.3	10.1	7.3	1899 Mai 29.0	1900.0	341 4 35.6	137 32 14.5
18 Melpomene	—	—	9.3	6.9	1854 Jan. 0.0*)	d. Ep.	80 4 37.0	225 1 41.3
19 Fortuna	—	—	9.8	7.1	1898 Oct. 21.0	1900.0	351 13 29.8	179 46 1.0
20 Massalia	April 4	9.1	9.2	6.5	1899 März 29.0	1900.0	76 24 22.5	253 50 39.9
21 Lutetia	—	—	10.1	7.4	1853 Jan. 2.0*)	d. Ep.	74 20 5.1	246 36 10.2
22 Kalliope	April 15	10.2	9.8	6.1	1898 Oct. 1.0	1900.0	96 34 37.0	351 56 41.4
23 Thalia	Dec. 9	9.2	10.5	7.3	1900 Jan. 3.0	1900.0	337 2 2.1	55 59 46.7
24 Themis	Juli 15	11.4	10.8	6.7	1888 Nov. 2.0	1900.0	165 24 31.2	107 58 42.0
25 Phocaea	Dec. 28	11.8	10.5	7.9	1898 Aug. 2.0	1900.0	7 21 33.6	88 49 31.0
26 Proserpina	—	—	10.5	7.3	1853 Juni 11.0*)	d. Ep.	351 5 55.6	190 30 15.7
27 Euterpe	Juli 27	10.5	9.7	7.2	1873 Jan. 5.0*)	1870.0	90 32 27.0	354 8 6.0
28 Bellona	—	—	10.1	6.6	1898 Sept. 11.0	1900.0	258 21 43.7	338 30 59.1
29 Amphitrite	April 12	9.4	9.0	6.1	1855 Jan. 0.0*)	1870.0	198 1 40.2	59 42 14.8
30 Urania	—	—	9.9	7.4	1890 Juni 5.0	1900.0	239 51 48.5	83 43 10.7
31 Euphrosyne	Nov. 5	9.9	11.0	6.8	1899 Oct. 15.0	1900.0	327 7 12.3	60 23 37.9
32 Pomona	Aug. 15	10.8	10.6	7.5	1855 Jan. 0.0*)	d. Ep.	223 54 39.3	332 38 53.4
33 Polyhymnia	—	—	11.8	8.2	1900 Jan. 0.0	1900.0	137 40 57.3	334 10 42.4
34 Circe	April 7	11.0	11.5	8.2	1897 Dec. 5.0	1900.0	288 24 37.6	326 54 59.7
35 Leukothea	Oct. 28	13.2	12.2	8.3	1898 Sept. 11.0	1900.0	127 0 27.3	205 43 45.9
36 Atalante	April 25	13.4	12.0	8.6	1899 Mai 8.0	1900.0	179 27 12.1	44 26 45.4
37 Fides	—	—	10.4	7.2	1898 Oct. 21.0	1900.0	323 52 24.4	58 53 17.6
38 Leda	Aug. 12	12.0	11.4	8.0	1897 Febr. 8.0	1900.0	31 52 32.7	166 10 52.1
39 Laetitia	Aug. 12	8.9	9.5	6.0	1897 Jan. 19.0	1900.0	111 43 50.9	205 28 8.2
40 Harmonia	—	—	9.2	6.9	1863 Jan. 0.0*)	d. Ep.	186 48 19.4	267 19 12.8

*) Mittlere Elemente.

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
80 39 31.0	10 36 57.2	4 27 41.2	770.1803	0.4422761	Godward.
172 53 0.9	34 41 25.1	13 42 31.8	768.1491	0.4430407	Farley.
170 44 30.8	13 1 34.6	14 52 49.3	813.7228	0.4263534	Hind.
103 31 18.2	7 8 16.2	5 7 1.2	977.6889	0.3732039	Farley.
141 31 29.0	5 20 7.2	11 1 8.5	858.1895	0.4109489	Farley.
138 46 43.9	14 48 9.4	11 37 44.9	939.2605	0.3848137	Prof. R. Luther.
259 47 55.8	5 28 3.0	13 20 50.2	962.5806	0.3777130	Brünnow.
110 17 16.7	5 53 7.3	9 0 54.4	1086.3382	0.3426943	Prof. Downing.
68 31 35.2	5 36 0.3	7 5 2.4	962.3390	0.3777857	Lesser.
285 48 45.5	3 48 49.8	6 53 27.8	639.1669	0.4962621	Prof. E. Becker.
125 18 38.7	4 37 49.9	5 47 39.4	924.1367	0.3895135	Prof. R. Luther.
235 34 41.7	8 23 17.7	12 38 44.9	994.8347	0.3681389	Brünnow.
43 11 34.5	16 32 24.6	4 59 47.3	857.9451	0.4110315	Hansen.
86 57 12.9	9 7 32.2	9 20 51.3	851.4287	0.4132389	Maywald.
293 52 14.5	11 44 17.4	10 47 32.2	825.4550	0.4222090	Schubert.
150 31 37.1	3 4 30.2	7 50 18.3	710.5554	0.4656058	Schubert.
125 12 21.3	5 36 36.0	7 35 2.7	912.7388	0.3931067	Maywald.
150 3 49.7	10 9 16.9	12 34 20.2	1020.1198	0.3609032	Schubert.
211 15 28.4	1 33 3.9	9 10 6.1	929.8074	0.3877424	A. Berberich.
206 37 45.2	0 41 11.9	8 17 46.2	949.0005	0.3818268	Prof. Küstner.
80 27 48.5	3 5 9.5	9 19 44.6	933.5544	0.3865780	Lesser.
66 33 27.0	13 43 36.7	5 38 34.5	714.4288	0.4640317	A. Berberich.
67 50 20.9	10 13 2.0	13 32 59.4	833.5369	0.4193879	Schubert.
35 36 49.3	0 48 12.1	7 40 31.1	641.1197	0.4953786	Krueger.
214 13 50.6	21 36 44.5	14 39 21.4	954.0992	0.3802754	A. Berberich.
45 54 59.3	3 35 47.7	5 0 37.3	819.6847	0.4242399	Hock.
93 51 20.1	1 35 30.4	10 0 56.0	986.6944	0.3705493	Prof. Hoppe.
144 43 16.1	9 21 37.4	8 38 54.6	765.9782	0.4438601	Oberstl. v. d. Groeben.
356 40 46.5	6 7 4.6	4 15 25.3	869.0352	0.4073128	Prof. E. Becker.
308 15 7.4	2 5 59.5	7 21 5.1	975.3144	0.3739080	Günther.
31 45 6.4	26 28 3.3	12 52 34.7	635.0803	0.4981187	Schubert.
220 42 55.2	5 28 49.9	4 45 43.1	852.5880	0.4128449	Lesser.
9 7 49.5	1 55 15.8	19 41 13.8	731.7057	0.4571134	Prof. Newcomb.
184 49 41.0	5 27 26.3	6 4 35.9	805.6011	0.4292575	Prof. Auwers.
355 47 23.7	8 11 44.8	12 44 57.6	683.6866	0.4767663	Tietjen.
359 6 46.3	18 39 39.3	17 26 19.0	777.3458	0.4395950	Schubert.
8 7 36.1	3 6 14.5	10 16 1.3	826.7628	0.4217504	Schubert.
296 29 4.4	6 57 52.6	8 53 45.4	781.8518	0.4379215	A. Berberich.
157 24 53.4	10 22 11.4	6 23 16.8	769.6407	0.4424791	Tietjen.
93 34 54.2	4 15 48.4	2 40 13.6	1039.3353	0.3555000	Schubert.

Nr. und Name	Opposition 1899	Gr.	m_0	g	Epoche und Osculation	Mittl. Aequ.	M	ω
41 Daphne . .	Oct. 6	11.5	10.5	7.0	1896 Dec. 30.0	1900.0	278° 7′ 19″.3	41° 56′ 43″.2
42 Isis	Dec. 15	10.9	10.4	7.7	1900 Jan. 4.0	1900.0	106 57 46.3	234 12 34.0
43 Ariadne . .	Jan. 31	10.8	10.0	7.9	1897 Oct. 6.0	1900.0	80 15 48.4	13 59 41.2
44 Nysa	Juli 20	10.7	9.8	7.1	1891 April 1.0	1900.0	101 29 32.1	340 32 15.8
45 Eugenia . .	Nov. 17	11.1	10.7	7.3	1890 Nov. 12.0	1900.0	180 7 31.7	82 42 47.8
46 Hestia . . .	—	—	10.6	7.7	1898 Dec. 20.0	1900.0	77 29 58.2	172 56 29.8
47 Aglaja . . .	Febr. 24	11.8	11.2	7.5	1898 Dec. 20.0	1900.0	193 12 16.1	310 0 51.6
48 Doris	April 11	11.1	10.9	6.8	1890 Sept. 13.0	1900.0	277 3 7.4	251 36 35.0
49 Pales	Mai 13	12.0	11.0	7.0	1898 März 15.0	1900.0	133 1 8.6	104 18 44.6
50 Virginia . .	Mai 1	12.8	11.7	8.5	1890 April 6.0	1900.0	193 9 42.2	196 47 34.5
51 Nemausa . .	Aug. 2	10.1	9.8	7.3	1889 Nov. 17.0	1900.0	254 26 43.1	358 30 23.3
52 Europa . . .	Sept. 24	10.4	10.3	6.2	1891 April 1.0	1900.0	65 39 33.0	335 58 38.7
53 Kalypso . .	Dec. 52	10.5	11.5	8.4	1898 Sept. 11.0	1900.0	262 39 8.8	309 50 4.2
54 Alexandra .	Nov. 25	11.5	10.9	7.6	1884 Aug. 15.0	1900.0	316 55 13.5	341 53 51.5
55 Pandora . .	Aug. 27	10.1	10.8	7.4	1885 Jan. 22.0	1900.0	263 33 12.6	0 46 45.4
56 Melete . . .	Oct. 3	10.6	11.3	8.2	1899 Sept. 26.0	1900.0	49 13 21.5	101 2 51.3
57 Mnemosyne	Dec. 19	10.2	10.7	6.5	1897 Juni 28.0	1900.0	231 1 17.6	210 8 12.7
58 Concordia .	—	—	11.6	8.3	1865 Jan. 7.0	d. Ep.	21 24 4.2	27 50 14.7
59 Elpis	Mai 14	11.4	10.9	7.6	1865 Jan. 7.0	1900.0	334 18 57.1	207 58 22.3
60 Echo	Febr. 15	10.2	11.1	8.5	1897 Oct. 6.0	1900.0	272 15 22.3	267 58 4.0
61 Danaë . . .	Febr. 20	11.8	11.0	7.1	1899 Febr. 18.0	1900.0	163 46 51.2	8 37 5.6
62 Erato	Nov. 3	11.3	12.3	8.2	1877 Sept. 21.0	1900.0	358 43 44.3	273 16 41.1
63 Ausonia . .	Aug. 13	9.3	9.9	7.3	1898 Febr. 3.0	1900.0	250 44 8.5	292 55 25.5
64 Angelina . .	Dec. 33	9.7	10.5	7.2	1898 Oct. 1.0	1900.0	239 38 51.2	173 37 28.8
65 Cybele . . .	März 16	10.9	11.0	6.4	1899 März 30.0	1900.0	291 13 58.9	99 11 7.5
66 Maja	Jan. 4	11.5	12.2	9.0	1897 Juli 18.0	1900.0	277 50 28.5	40 10 9.2
67 Asia	Juli 23	9.9	11.2	8.5	1897 Dec. 5.0	1900.0	201 20 50.1	103 20 37.7
68 Leto	Aug. 6	9.5	10.5	7.0	1898 April 24.0	1900.0	236 41 25.3	301 43 40.3
69 Hesperia . .	Juli 28	10.9	10.7	6.8	1889 Jan. 1.0	1900.0	182 52 57.9	284 43 39.6
70 Panopaea .	April 27	10.6	10.9	7.8	1890 Dec. 22.0	1900.0	305 21 16.5	252 49 22.9
71 Niobe . . .	Dec. 8	11.0	10.7	7.3	1898 Oct. 1.0	1900.0	134 2 10.3	265 39 20.2
72 Feronia . .	Juni 8	10.6	11.2	8.9	1897 Dec. 25.0	1900.0	166 4 16.3	100 27 36.6
73 Klytia . . .	Nov. 24	11.8	12.0	8.8	1898 Aug. 2.0	1900.0	244 29 53.1	52 42 12.0
74 Galatea . .	Sept. 23	10.2	11.8	8.3	1897 Febr. 28.0	1900.0	148 4 45.2	171 0 3.8
75 Eurydike . .	Jan. 26	12.8	11.6	8.4	1897 Oct. 26.0	1900.0	32 23 13.9	335 34 2.0
76 Freia	Aug. 25	12.2	12.0	7.4	1899 Sept. 6.0	1900.0	264 45 58.2	236 45 38.2
77 Frigga . . .	März 1	11.2	11.1	7.9	1897 Oct. 6.0	1900.0	331 13 52.7	56 51 27.7
78 Diana . . .	Sept. 18	11.1	10.6	7.5	1897 April 9.0	1900.0	48 33 23.0	149 2 55.2
79 Eurynome .	Jan. 30	10.3	10.5	7.8	1899 Jan. 29.0	1900.0	65 17 16.8	198 3 9.0
80 Sappho . . .	Juni 22	10.2	10.6	8.2	1896 Oct. 11.0	1900.0	19 11 20.1	136 54 29.1

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
178 54 57.1	15 55 27.6	15 27 11.7	770.8841	0.4420117	A. Berberich.
84 21 25.8	8 34 1.8	12 49 11.3	929.7907	0.3877476	Prof. L. Becker.
264 44 16.3	3 27 42.6	9 38 32.6	1084.7577	0.3431159	Prof. A. Prey.
131 15 10.2	3 42 4.2	8 48 10.9	941.7363	0.3840515	Powalky.
148 7 49.1	6 35 22.7	4 44 11.6	791.0695	0.4345280	Oberstl. Richter.
181 25 53.9	2 17 33.6	9 35 40.3	884.4144	0.4022339	Prof. Karlinski.
4 3 41.5	5 0 34.6	7 42 46.5	726.7211	0.4590926	Powalky.
184 42 28.7	6 30 28.0	3 30 16.7	645.5014	0.4934063	Powalky.
289 40 40.8	3 8 26.3	12 52 28.4	648.4530	0.4920854	Powalky.
173 47 19.2	2 48 31.7	16 45 58.0	823.5561	0.4228757	Powalky.
175 52 45.4	9 57 16.2	3 51 23.3	975.1593	0.3739540	A. Berberich.
129 49 21.9	7 26 18.3	6 31 44.8	651.8134	0.4905889	Murmann.
143 54 57.8	5 7 29.0	11 56 45.7	837.9945	0.4178437	Tietjen.
313 53 45.7	11 47 33.9	11 31 49.2	795.5362	0.4328971	Herm. Schultz.
11 5 29.9	7 13 21.5	8 18 56.3	774.4612	0.4406713	Prof. Moeller.
194 3 1.3	8 3 17.4	13 23 23.8	846.2736	0.4149972	Prof. R. Luther.
200 1 43.4	15 11 43.8	6 49 36.3	635.2903	0.4980229	Adolph.
161 19 50.3	5 1 50.5	2 26 21.8	799.5964	0.4314238	Oppolzer.
170 49 39.2	8 36 57.8	6 44 2.7	793.9788	0.4334651	Oppolzer.
191 53 22.7	3 35 6.7	10 34 22.7	958.2244	0.3790263	C. H. F. Peters.
334 16 27.4	18 15 37.3	9 31 38.2	689.0908	0.4744868	Prof. R. Luther.
125 59 38.4	2 12 18.6	10 6 47.4	642.5659	0.4947260	Oppolzer.
337 58 3.7	5 47 11.4	7 17 58.7	957.1671	0.3793459	Tietjen.
310 50 59.6	1 19 34.2	7 17 59.7	807.9036	0.4284314	Oppolzer.
158 55 59.0	3 28 54.8	5 50 29.4	557.4450	0.5358697	Fritsche.
8 17 30.6	3 4 58.6	10 3 43.4	824.7740	0.4224477	Maywald.
202 55 26.2	5 59 14.6	10 47 54.5	942.3560	0.3838611	Frischauf.
44 42 44.5	7 58 21.8	10 39 16.0	763.4868	0.4448033	Th. Wolff.
186 40 56.4	8 29 52.2	9 39 2.0	689.6731	0.4742422	Dr. Kowalczyk.
48 15 50.9	11 38 20.8	10 22 15.9	838.9960	0.4174978	Oberstl. Richter.
316 22 37.2	23 16 53.8	9 57 51.8	775.1865	0.4404003	Prof. E. Becker.
207 54 6.8	5 23 56.2	6 56 42.6	1040.3544	0.3552169	C. H. F. Peters.
7 35 28.1	2 24 13.1	2 34 3.9	816.0117	0.4255401	Powalky.
197 44 15.2	4 0 26.4	13 43 0.6	764.6230	0.4443728	Maywald.
359 58 28.1	4 59 51.2	17 45 42.2	812.4299	0.4268137	Stockwell.
212 11 0.1	2 2 45.8	9 44 13.5	562.7407	0.5331322	Murmann.
2 4 10.7	2 27 29.8	7 38 43.5	813.8298	0.4263153	Dr. Plath.
333 51 28.8	8 41 27.0	12 6 55.7	837.2567	0.4180987	Prof. v. Dubjago.
206 38 34.6	4 36 18.7	11 3 36.3	928.4871	0.3881538	Dr. Lachmann.
218 40 52.1	8 37 21.0	11 34 29.9	1020.1090	0.3609067	Oberstl. v. d. Groeben.

Nr. und Name	Opposition 1899	Gr.	m_0	g	Epoche und Osculation	Mittl. Aequ.	M	ω
81 Terpsichore	—	—	11.8	8.2	1897 Juli 18.0	1900.0	260° 37′ 9.1″	46° 14′ 45.4″
82 Alkmene . .	Juli 13	12.2	11.2	7.8	1899 Juli 18.0	1900.0	146 36 15.6	107 11 12.6
83 Beatrix . . .	März 25	10.8	11.3	8.6	1891 Jan. 11.0	1900.0	295 16 6.4	163 24 10.4
84 Klio	—	—	11.3	8.8	1897 April 29.0	1900.0	252 45 4.7	12 50 33.4
85 Io	Juni 25	10.0	10.9	7.7	1889 Febr. 10.0	1900.0	180 9 35.1	120 16 29.3
86 Semele . . .	—	—	12.4	8.3	1896 Mai 4.0	1900.0	203 38 24.5	300 25 0.9
87 Sylvia . . .	Juni 22	11.6	11.9	7.2	1898 April 24.0	1900.0	236 42 47.7	265 34 8.9
88 Thisbe . . .	Nov. 5	10.6	10.8	7.4	1889 Dec. 27.0	1900.0	25 33 30.8	30 51 35.1
89 Julia	Oct. 15	9.2	10.1	7.1	1889 Dec. 27.0	1900.0	237 15 2.3	42 50 30.0
90 Antiope . .	Juli 29	10.7	11.6	7.5	1898 April 4.0	1900.0	277 45 51.5	231 43 15.5
91 Aegina . . .	Sept. 11	11.2	11.3	8.2	1895 Oct. 17.0	1900.0	301 7 37.1	71 47 2.1
92 Undina . . .	Febr. 21	11.4	10.9	6.7	1896 Sept. 1.0	1900.0	30 19 59.7	222 11 3.2
93 Minerva . .	Sept. 17	10.5	10.8	7.4	1897 Jan. 19.0	1900.0	213 22 8.2	270 51 58.5
94 Aurora . . .	Mai 16	11.7	11.3	7.1	1883 Juli 12.0	1900.0	256 3 4.3	45 22 31.8
95 Arethusa . .	Oct. 14	10.4	11.3	7.3	1897 April 29.0	1900.0	187 44 18.9	150 12 20.9
96 Aegle . . .	—	—	11.4	7.4	1897 Sept. 16.0	1900.0	182 59 36.0	200 34 38.9
97 Klotho . . .	April 27	11.6	10.6	7.4	1898 Jan. 14.0	1900.0	21 4 31.9	264 36 3.6
98 Ianthe . . .	April 9	10.8	11.6	8.3	1897 Nov. 15.0	1900.0	283 55 20.7	155 6 36.5
99 Dike	—	—	14	10.5	1868 Juni 5.0	1890.0	350 36 11	198 52 26
100 Hekate . . .	März 5	12.4	11.9	7.8	1898 Jan. 14.0	1900.0	156 19 38.0	176 49 22.9
101 Helena . . .	Jan. 7	11.2	10.7	7.6	1897 Aug. 27.0	1900.0	8 56 38.1	343 58 29.0
102 Miriam . . .	Dec. 36	12.8	12.6	9.4	1898 Juli 13.0	1900.0	319 11 42.8	143 39 2.3
103 Hera	Sept. 13	9.8	10.2	6.9	1897 Febr. 8.0	1900.0	173 11 18.9	185 58 23.1
104 Klymene . .	April 4	12.6	12.2	8.0	1897 Dec. 25.0	1900.0	35 9 54.6	19 59 38.3
105 Artemis . .	—	—	11.1	8.5	1897 Aug. 27.0	1900.0	69 55 41.8	54 43 29.2
106 Dione . . .	März 16	12.1	11.3	7.2	1899 März 10.0	1900.0	135 33 50.5	323 0 52.2
107 Camilla . . .	Juli 24	11.5	11.2	6.5	1891 April 21.0	1900.0	97 7 57.4	293 58 0.6
108 Hecuba . . .	Juli 13	11.9	11.7	7.4	1899 Juli 28.0	1900.0	115 11 22.3	175 6 45.9
109 Felicitas . .	Juni 17	13.1	12.0	8.7	1898 Jan. 14.0	1900.0	115 33 32.5	52 23 0.4
110 Lydia . . .	Sept. 20	10.0	10.5	7.1	1888 Febr. 16.0	1900.0	197 35 50.1	279 6 17.6
111 Ate	Juli 20	11.8	11.3	8.2	1890 Jan. 16.0	1900.0	91 26 4.4	163 35 29.2
112 Iphigenia .	März 16	12.2	11.5	8.8	1897 Dec. 25.0	1900.0	88 12 11.4	14 8 43.2
113 Amalthea .	—	—	11.0	8.4	1899 Dec. 25.0	1900.0	287 59 50.3	76 58 30.2
114 Kassandra .	—	—	11.1	7.8	1889 Sept. 18.0	1900.0	211 30 3.4	348 48 21.0
115 Thyra . . .	März 17	11.1	10.4	7.8	1897 Oct. 6.0	1900.0	340 57 26.1	94 2 54.5
116 Sirona . . .	Oct. 22	11.1	10.7	7.3	1889 Juni 10.0	1900.0	158 3 13.7	89 5 27.1
117 Lomia . . .	Jan. 0	11.4	11.4	7.5	1897 Oct. 6.0	1900.0	332 35 55.4	48 38 21.5
118 Peitho . . .	April 26	11.4	10.8	8.1	1899 Mai 9.0	1900.0	126 20 58.5	31 15 41.2
119 Althaea . .	Dec. 29	10.5	10.6	7.5	1898 Aug. 2.0	1900.0	314 33 34.0	168 35 13.5
120 Lachesis . .	Febr. 6	11.7	11.7	7.6	1897 Nov. 15.0	1900.0	202 19 20.3	238 31 18.5

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
2 26 3.2	7 55 0.8	12 11 52.3	736.4126	0.4552583	Maywald.
26 30 34.0	2 51 20.6	12 52 17.7	773.5683	0.4410053	Dr. W. Luther.
27 39 29.7	4 59 45.5	4 51 24.3	935.9122	0.3858476	Prof. E. Becker.
327 31 22.2	9 21 24.6	13 40 0.3	977.4411	0.3732774	Prof. Neugebauer.
203 46 47.4	11 53 51.6	11 10 33.7	821.0524	0.4237571	Oberstl. v. d. Groeben.
87 54 38.5	4 47 37.3	12 46 54.2	650.4530	0.4911938	Oberstl. v. d. Groeben.
75 7 59.2	10 53 1.0	5 26 44.5	545.3288	0.5422321	Oberstl. v. d. Groeben.
277 42 47.1	5 14 53.7	9 26 6.4	771.1774	0.4419015	Dr. Kowalczyk.
311 52 22.1	16 12 28.5	10 33 29.3	871.5645	0.4064714	Th. Wolff.
71 13 4.8	2 16 17.0	8 53 22.1	632.5389	0.4992796	Maywald.
10 57 44.3	2 8 21.7	6 5 9.2	851.5394	0.4132012	Oberstl. v. d. Groeben.
102 55 42.7	9 55 52.0	5 35 51.8	622.7897	0.5037768	Dr. Anderson.
4 56 14.6	8 35 23.4	8 1 55.7	775.6316	0.4402341	Prof. P. Lehmann.
4 25 0.9	8 4 14.0	4 44 18.3	630.6584	0.5001416	Leppig.
244 1 45.9	12 55 10.2	8 49 13.9	661.2229	0.4864391	Prof. Schur.
322 38 39.2	16 2 20.5	7 39 35.3	663.1502	0.4855965	L. Schulhof.
160 48 52.0	11 45 33.9	14 51 9.7	813.5778	0.4264050	Maywald.
354 17 48.6	15 33 54.4	10 50 24.7	805.3408	0.4293513	Oberstl. v. d. Groeben.
42 1 35	13 53 24	13 47 30	758.662	0.44664	Loewy u. Tisserand.
128 18 46.9	6 23 10.8	9 31 58.5	653.5823	0.4898043	Dr. Stark.
343 34 25.3	10 10 28.2	8 1 10.2	854.8620	0.4120737	Oberstl. v. d. Groeben.
211 30 18.2	5 5 28.2	14 44 31.2	817.8380	0.4248929	C. H. F. Peters.
136 18 9.4	5 24 36.7	4 30 21.3	798.0990	0.4319669	Leveau.
43 6 17.3	2 52 51.5	8 32 48.6	632.5948	0.4992527	A. Berberich.
188 6 29.5	21 30 59.6	10 6 59.0	970.4600	0.3753527	Prof. A. Leman.
63 13 42.6	4 37 2.1	9 42 14.4	627.1533	0.5017553	A. Berberich.
176 5 37.5	9 51 44.3	3 56 39.0	544.1827	0.5428412	Dr. Matthiessen.
352 23 39.2	4 23 34.5	6 3 51.2	618.0468	0.5059901	L. Schulhof.
4 34 5.3	8 0 56.7	17 12 53.0	799.9088	0.4313108	Oberstl. v. d. Groeben.
57 21 11.7	5 59 42.9	4 37 36.1	785.9731	0.4364104	H. Oppenheim.
306 30 48.3	4 56 17.0	5 58 35.2	849.9712	0.4137349	Dr. Holetschek.
324 4 8.9	2 37 5.2	7 25 29.0	934.8048	0.3861905	Tietjen.
123 14 23.1	5 2 3.8	5 1 17.9	969.0375	0.3757773	Dr. W. Luther.
164 32 42.0	4 53 58.4	7 55 32.6	810.5220	0.4274945	Dr. F. Anton.
309 11 11.8	11 35 33.0	11 5 7.8	966.3219	0.3765898	Watson.
64 34 59.8	3 35 8.7	8 3 59.9	770.3736	0.442203	H. Oppenheim.
349 32 55.0	14 56 16.5	1 31 51.9	685.2178	0.4761187	Tietjen.
47 35 39.5	7 46 34.4	9 19 52.9	931.5356	0.3872046	Dr. Holetschek.
203 49 19.0	5 44 19.9	4 42 49.9	855.7364	0.4117777	A. Berberich.
342 37 18.6	7 0 12.0	3 30 1.0	645.4399	0.493434	Dr. Plath.

Nr. und Name	Opposition 1899	Gr.	m_0	g	Epoche und Osculation	Mittl. Aequ.	M (° ′ ″)	ω (° ′ ″)
121 Hermione . .	Sept. 9	10.5	11.2	6.6	1899 Sept. 6.0	1900.0	349 44 59.0	280 13 1.4
122 Gerda	März 14	11.3	11.5	7.2	1899 März 10.0	1900.0	339 44 15.0	17 8 14.6
123 Brunhild . .	Oct. 5	11.3	11.8	8.5	1898 Juni 23.0	1900.0	210 35 25.0	122 14 47.2
124 Alkeste . . .	Dec. 35	10.6	10.3	7.1	1890 Dec. 2.0	1900.0	180 26 7.9	58 14 55.4
125 Liberatrix .	Aug. 21	10.9	11.2	7.8	1897 Jan. 19.0	1900.0	202 46 5.6	104 32 50.8
126 Velleda . . .	Dec. 14	11.5	11.5	8.8	1899 Dec. 15.0	1900.0	81 59 24.9	325 45 47.1
127 Johanna . .	Sept. 18	10.7	10.5	7.1	1890 Oct. 3.0	1900.0	251 23 46.9	90 26 1.5
128 Nemesis . .	Oct. 12	9.9	10.6	7.2	1897 Jan. 19.0	1900.0	144 20 2.3	300 33 17.2
129 Antigone . .	Sept. 21	10.5	10.3	6.6	1897 Jan. 19.0	1900.0	253 10 0.2	103 42 13.1
130 Elektra . . .	Dec. 44	10.5	10.6	6.5	1898 Aug. 22.0	1900.0	337 6 55.3	233 45 56.0
131 Vala	März 5	12.0	12.2	9.5	1898 Dec. 20.0	1900.0	288 37 28.9	155 55 32.5
132 Aethra . . .	—	—	11.1	8.0	1895 Nov. 30.5	1900.0	330 47 37.2	252 15 8.1
133 Cyrene . . .	Juni 18	10.5	11.3	7.3	1898 Jan. 14.0	1900.0	280 4 53.4	283 57 53.9
134 Sophrosyne .	—	—	11.1	8.1	1897 Juli 18.0	1900.0	235 51 37.8	81 26 4.1
135 Hertha . . .	—	—	10.5	7.8	1898 Oct. 1.0	1900.0	33 3 56.2	337 8 16.8
136 Austria . . .	Juli 31	10.7	11.2	8.9	1898 März 15.0	1900.0	211 14 20.2	130 29 0.4
137 Meliboea . .	Dec. 43	12.8	11.8	7.7	1898 Nov. 10.0	1900.0	80 12 0.8	105 36 1.8
138 Tolosa . . .	—	—	11.8	9.1	1896 Febr. 14.0	1900.0	190 23 49.0	258 2 25.2
139 Juewa	—	—	10.9	7.4	1898 Nov. 30.0	1900.0	299 0 11.9	162 8 46.4
140 Siwa	April 23	11.0	11.4	8.0	1898 Oct. 1.0	1900.0	173 35 23.3	193 10 59.4
141 Lumen . . .	Sept. 13	10.1	11.4	8.2	1890 Aug. 24.0	1900.0	321 2 54.7	54 13 48.3
142 Polana . . .	Sept. 11	12.6	12.2	9.5	1896 Dec. 10.0	1900.0	211 12 47.7	290 0 26.5
143 Adria	Juni 30	12.2	12.4	9.0	1891 Oct. 18.0	1900.0	160 45 41.3	248 47 54.2
144 Vibilia . . .	Jan. 17	10.9	10.7	7.5	1888 Juli 18.0	1900.0	289 54 28.9	290 44 14.9
145 Adeona . . .	Dec. 42	10.5	11.3	8.1	1898 Aug. 22.0	1900.0	240 12 41.7	40 32 42.2
146 Lucina . . .	Nov. 21	11.4	11.1	7.7	1898 Aug. 2.0	1900.0	89 1 10.2	140 57 15.8
147 Protogeneia .	Dec. 21	12.5	12.5	8.4	1898 Sept. 11.0	1900.0	348 52 28.8	122 48 3.8
148 Gallia	Dec. 46	10.6	11.0	7.5	1900 Jan. 24.0	1900.0	60 23 35.9	250 58 41.6
149 Medusa . . .	—	—	12.9	11.0	1900 Mai 24.0	1900.0	200 8 29.0	249 43 18.4
150 Nuwa	April 19	12.1	11.6	7.7	1893 März 1.0	1900.0	155 36 25.8	146 42 52.7
151 Abundantia	Juli 16	11.8	11.7	8.6	1896 Nov. 20.0	1900.0	255 13 12.2	131 0 0.9
152 Atala	Jan. 14	11.9	12.2	8.1	1899 Jan. 29.0	1900.0	27 31 7.9	42 36 44.3
153 Hilda	Nov. 24	13.2	12.6	7.3	1899 Nov. 5.0	1900.0	123 41 12.6	54 41 35.9
154 Bertha . . .	—	—	11.2	7.0	1900 Jan. 4.0	1900.0	290 52 56.2	161 15 28.8
155 Scylla	Aug. 13	14.1	13.5	9.8	1875 Nov. 8.5	1890.0	339 4 47	39 9 28
156 Xanthippe .	Juni 26	12.2	11.9	7.9	1875 Nov. 27.5	1900.0	286 31 33.6	269 45 21.1
157 Dejanira . .	Aug. 20	15.4	14.7	11.6	1875 Dec. 27.5	1900.0	340 48 39.7	43 53 50.3
158 Koronis . . .	Dec. 8	11.5	12.3	8.7	1898 Aug. 22.0	1900.0	278 50 53.8	138 47 33.9
159 Aemilia . . .	März 8	12.0	12.3	8.2	1897 Dec. 5.0	1900.0	324 40 17.3	331 52 26.4
160 Una	März 22	12.0	11.8	8.4	1897 Dec. 25.0	1900.0	33 30 8.8	46 47 11.5

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76 42 21.5	7 34 51.4	7 57 30.9	555.0444	0.5371193	A. Berberich.
178 46 6.9	1 36 32.9	2 52 24.9	615.1125	0.5073680	H. Lange.
308 29 36.1	6 25 24.3	7 1 21.7	802.5894	0.4303421	A. Berberich.
188 28 29.7	2 55 33.8	4 27 41.2	832.2976	0.4198186	Prof. Hall sen.
169 28 0.9	4 38 1.7	4 29 45.0	780.9349	0.4382611	H. Lange.
23 19 47.4	2 56 23.6	6 3 49.4	931.5174	0.3872104	Oberstl. v. d. Groeben.
31 45 41.1	8 15 39.0	3 47 29.9	775.8987	0.4401344	Maywald.
76 37 27.9	6 15 7.7	7 13 52.8	778.9624	0.4389934	Dr. de Ball.
137 50 3.1	12 10 5.6	12 15 18.0	730.5585	0.4575677	Austin.
146 8 24.2	22 58 6.0	12 29 21.9	646.4298	0.4929901	Powalky.
65 29 50.6	4 57 45.6	3 51 52.5	935.8550	0.3858654	A. Berberich.
260 2 56.6	23 32 20.3	19 21 13.8	903.6882	0.3959920	Dr. W. Luther.
321 17 10.0	7 13 46.2	8 2 47.1	662.6045	0.4858348	Oberstl. v. d. Groeben.
346 19 4.3	11 36 9.5	6 43 11.6	864.4642	0.4088397	Maywald.
344 4 53.8	2 18 29.8	11 45 17.6	937.0637	0.3854917	Maywald.
186 12 30.0	9 33 16.6	4 52 0.8	1025.7532	0.3593092	H. Oppenheim.
203 39 7.8	13 21 11.9	12 46 22.0	645.4607	0.4934245	H. Lange.
54 46 47.0	3 13 19.7	9 16 35.8	924.9117	0.3892709	Oberstl. v. d. Groeben.
2 24 42.8	10 55 14.3	9 57 48.4	764.0768	0.4445797	A. Berberich.
107 7 8.1	3 11 31.2	12 31 19.9	786.6737	0.4361413	Oberstl. v. d. Groeben.
319 19 51.6	11 58 35.4	12 16 57.4	814.6615	0.4260196	A. Berberich.
291 51 30.9	2 14 26.9	7 44 10.6	943.5246	0.3835023	Prof. L. Becker.
333 46 15.4	11 30 8.9	4 8 20.2	773.3958	0.4410699	von Haerdtl.
76 53 48.3	4 48 16.3	13 28 14.3	819.4849	0.4243104	Powalky.
77 47 51.1	12 41 9.8	8 24 20.6	812.2212	0.4268915	Tietjen.
84 18 41.5	13 5 8.8	3 39 14.6	791.4186	0.4344003	A. Berberich.
251 10 53.0	1 54 16.5	2 2 8.6	638.8069	0.4964247	Prof. L. Becker.
145 10 48.7	25 20 40.3	10 42 16.6	769.6223	0.4424860	Prof. L. Becker.
158 40 24.6	0 55 44.4	3 50 11.2	1105.8897	0.3375299	H. Lange.
207 40 28.0	2 8 22.3	7 20 7.3	689.2534	0.474418	H. Oppenheim.
38 54 32.6	6 28 11.9	2 9 0.7	850.8980	0.4134194	Oberstl. v. d. Groeben.
41 16 53.9	12 13 18.0	4 12 12.4	637.2942	0.4971111	H. Lange.
228 21 34.0	7 51 47.0	9 30 5.4	449.8433	0.5979636	Dr. Kühnert.
37 21 31.9	20 54 29.3	4 39 8.1	622.4711	0.5039249	Dr. Anton.
43 4 14	14 4 25	14 49 28	713.7875	0.464292	L. Schulhof.
246 32 22.5	7 28 34.7	15 17 23.2	670.230	0.482522	Dr. A. Schmidt.
62 46 20.9	12 2 7.9	12 8 59.6	854.8040	0.4120934	Prof. A. Leman.
280 59 33.3	0 59 59.3	3 17 38.9	730.4848	0.4575969	Maywald.
135 4 8.9	6 4 58.6	5 37 45.9	647.4107	0.492551	A. Berberich.
9 16 50.3	3 51 17.9	3 45 8.1	787.7290	0.435753	Prof. Neugebauer.

Nr. und Name	Opposition 1899	Gr.	m_o	g	Epoche und Osculation	Mittl. Aequ.	M	ω
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161 Athor	Oct. 15	10.6	11.0	8.4	1896 Dec. 30.0	1900.0	142 39 1.6	291 48 21.8
162 Laurentia . .	Sept. 15	13.1	12.3	8.4	1899 Sept. 6.0	1900.0	215 30 54.3	106 2 12.0
163 Erigone . . .	Aug. 19	12.6	12.0	9.5	1899 Aug. 17.0	1900.0	244 4 42.0	295 32 50.9
164 Eva	—	—	11.5	8.3	1900 Febr. 3.0	1900.0	127 58 28.1	281 50 6.4
165 Loreley . . .	Oct. 16	11.2	11.1	7.0	1897 April 9.0	1900.0	290 21 20.7	342 30 31.3
166 Rhodope . . .	Dec. 56	12.2	12.5	9.2	1897 Juni 8.0	1900.0	213 52 27.9	261 28 34.0
167 Urda	April 28	13.0	13.0	9.4	1898 Jan. 14.0	1900.0	197 17 5.7	121 7 27.8
168 Sibylla	Mai 16	11.9	11.6	7.1	1899 Mai 29.0	1900.0	218 22 50.2	174 27 5.8
169 Zelia	—	—	11.3	8.8	1890 Aug. 4.0	1900.0	328 1 8.3	332 10 48.0
170 Maria	Juli 25	12.0	11.7	8.7	1899 Juli 28.0	1900.0	209 13 57.8	156 16 19.6
171 Ophelia . . .	—	—	12.1	8.0	1897 Oct. 6.0	1900.0	236 0 17.5	50 25 52.0
172 Baucis	Febr. 18	11.0	10.4	7.8	1889 Juni 30.0	1900.0	316 43 41.4	356 48 38.4
173 Ino	Juni 3	11.4	11.0	7.6	1897 Jan. 19.0	1900.0	71 13 19.6	224 39 33.8
174 Phaedra . . .	Jan. 10	12.3	11.6	8.0	1897 Oct. 6.0	1900.0	129 24 10.1	286 21 28.5
175 Andromache.	Mai 22	11.9	12.3	8.0	1899 Mai 29.0	1900.0	298 6 57.3	301 22 0.6
176 Idunna . . .	Juli 15	12.0	12.1	7.9	1899 Juli 28.0	1900.0	294 51 44.1	182 40 9.9
177 Irma	Juni 6	13.0	12.4	9.0	1897 Jan. 19.0	1900.0	71 42 48.0	33 16 24.6
178 Belisana . . .	Mai 27	11.7	12.0	9.2	1899 Juni 18.0	1900.0	352 56 55.0	211 53 37.8
179 Klytaemnestra	Jan. 8	11.8	11.5	7.7	1897 Oct. 6.0	1900.0	14 32 37.3	100 30 36.1
180 Garumna . .	Nov. 21	12.7	13.3	9.9	1890 Nov. 12.0	1900.0	307 57 53.2	169 45 10.5
181 Eucharis . .	—	—	11.5	7.4	1887 Oct. 19.0	1900.0	305 49 36.6	310 26 13.3
182 Elsa	Nov. 12	9.7	11.0	8.3	1897 März 20.0	1900.0	102 51 45.1	308 14 46.6
183 Istria	Juni 27	13.4	12.6	9.1	1899 Juli 8.0	1900.0	265 54 58.1	262 24 28.3
184 Dejopeja . . .	Dec. 28	12.4	12.4	8.2	1900 Jan. 4.0	1900.0	285 47 2.9	204 29 20.4
185 Eunike . . .	Dec. 31	10.3	10.4	7.0	1889 Aug. 29.0	1900.0	328 8 9.8	221 35 39.2
186 Celuta	Jan. 22	12.2	11.4	8.9	1897 Aug. 27.0	1900.0	2 39 38.6	313 36 19.9
187 Lamberta . .	Dec. 44	11.4	11.4	8.0	1897 Aug. 27.0	1900.0	94 42 30.1	192 2 34.6
188 Menippe . . .	—	—	13.0	9.6	1897 Sept. 1.0	1897.0	23 1 52.3	66 37 4.1
189 Phthia	Jan. 20	11.7	11.5	8.8	1899 Jan. 29.0	1900.0	111 0 2.7	166 0 19.2
190 Ismene . . .	Juni 21	12.7	12.0	6.7	1899 Juni 18.0	1900.0	161 41 44.3	286 24 48.6
191 Kolga	—	—	12.0	8.3	1897 Juli 18.0	1900.0	271 52 28.4	224 21 6.3
192 Nausikaa . .	Juli 10	8.8	9.3	6.7	1888 Juli 25.0	1900.0	324 20 18.4	27 40 31.7
193 Ambrosia . .	—	—	12.2	9.2	1879 März 25.5	1890.0	68 48 35.8	79 36 57.9
194 Prokne . . .	Jan. 3	11.5	10.5	7.4	1899 Jan. 29.0	1900.0	130 9 24.2	160 37 14.6
195 Eurykleia . .	Mai 23	12.4	12.3	8.6	1896 Nov. 20.0	1900.0	289 6 35.6	118 6 40.4
196 Philomela . .	Dec. 42	10.5	10.3	6.3	1898 Nov. 10.0	1900.0	81 59 4.9	237 53 16.3
197 Arete	Dec. 41	13.3	12.7	9.3	1898 Oct. 1.0	1900.0	30 17 6.4	243 33 1.7
198 Ampella . . .	Nov. 9	10.0	11.1	8.3	1899 Nov. 5.0	1900.0	33 9 34.1	87 29 35.3
199 Byblis	Dec. 49	13.1	12.4	8.2	1900 Jan. 4.0	1900.0	227 27 1.0	172 2 4.9
200 Dynamene . .	—	—	11.0	7.6	1889 Dec. 27.0	1900.0	30 58 9.6	82 42 28.9

☊	*i*	φ	μ	Log. *a*	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
18 40 42.3	9 3 13.4	7 57 23.4	967.0645	0.3763675	Tietjen.
38 8 9.9	6 5 2.6	10 31 5.3	676.5719	0.4797951	Tietjen.
160 11 30.1	4 46 53.0	11 1 5.2	976.7787	0.3734736	A. Berberich.
77 36 9.5	24 24 25.5	20 18 45.1	831.0764	0.4202438	Oberstl. Richter.
304 2 38.3	11 12 2.0	3 54 10.6	641.1299	0.4953737	Dr. Samter.
129 31 20.8	12 1 58.2	12 13 13.9	806.7683	0.4288385	Oberstl. Richter.
166 30 4.3	2 10 50.3	1 59 3.7	736.5954	0.4551851	H. Lange.
209 14 59.7	4 36 10.3	4 21 54.0	571.6864	0.5285658	Oberstl. v. d. Groeben.
354 49 46.7	5 30 46.5	7 31 33.7	979.6462	0.3726249	Oberstl. Richter.
301 23 59.2	14 22 3.3	3 44 33.9	869.6381	0.4071121	H. Lange.
100 57 12.2	2 33 13.5	6 38 28.6	636.3859	0.4975241	A. Berberich.
332 3 2.5	10 2 6.0	6 32 18.8	965.9899	0.3766893	A. Berberich.
148 44 52.2	14 15 41.1	11 51 44.6	780.8006	0.4383110	Dr. Becka.
328 40 0.4	12 6 28.6	8 23 43.8	734.0156	0.456201	H. Oppenheim.
25 24 47.8	3 10 42.0	11 9 4.1	611.6426	0.5090059	A. Berberich.
201 1 3.0	22 41 23.2	9 59 57.3	626.7099	0.5019601	Prof. P. Neugebauer.
349 25 24.5	1 26 50.6	13 32 58.0	768.8406	0.4427802	Oberstl. Richter.
50 56 16.0	1 54 30.9	2 29 31.3	918.4878	0.3912889	A. Berberich.
253 11 54.0	7 47 53.7	6 37 0.0	692.8578	0.472908	H. Oppenheim.
314 42 52.9	0 53 40.0	9 44 51.5	790.6732	0.4346730	Oberstl. v. d. Groeben.
144 59 6.3	18 35 27.7	12 40 26.5	643.5438	0.4942856	Dr. de Ball.
106 40 11.0	2 10 10.9	10 50 51.9	944.5132	0.3831990	Dr. Samter.
142 49 29.6	26 26 5.7	20 18 34.5	760.8018	0.4458234	Prof. Donner.
334 35 33.1	1 11 18.2	3 24 23.1	622.2287	0.5040377	Pfarrer Thraen.
153 54 58.7	23 14 23.2	7 11 6.0	782.8646	0.4375466	Oberstl. v. d. Groeben.
14 35 38.0	13 11 7.2	8 41 21.3	977.5884	0.3732337	Tietjen.
22 14 21.7	10 41 20.6	13 36 43.5	785.6152	0.4365311	Prof. A. Leman.
241 45 5.2	11 44 38.6	10 15 28.9	772.712	0.441326	J. Coniel.
203 23 40.2	5 9 3.8	2 7 1.6	925.1109	0.3892085	H. Oppenheim.
176 57 35.3	6 8 17.6	9 31 56.5	454.7882	0.5947983	Prof. Küstner.
159 50 50.8	11 29 30.2	5 13 5.0	720.0541	0.4617609	Prof. L. Becker.
343 24 55.7	6 51 36.0	14 9 22.7	952.4502	0.3807762	H. Lange.
351 23 45.9	11 38 37.1	16 34 52.0	858.2960	0.410913	Prof. A. Leman.
159 20 49.2	18 25 9.5	13 50 55.7	839.1447	0.4174465	Tietjen.
7 44 8.9	7 0 5.6	2 25 31.5	727.0472	0.4589627	Oberstl. v. d. Groeben.
73 20 8.1	7 16 57.8	1 10 59.6	645.2604	0.4935145	Tietjen.
82 2 29.3	8 49 16.4	9 21 29.1	782.4385	0.4377043	Oberstl. v. d. Groeben.
268 29 57.8	9 18 52.0	13 5 37.9	919.8103	0.3908723	Oberstl. v. d. Groeben.
89 43 9.9	15 25 3.2	10 17 26.5	629.4802	0.5006831	Tietjen.
325 26 20.0	6 54 42.4	7 42 34.1	783.2093	0.4374192	Oberstl. v. d. Groeben.

Nr. und Name	Opposition 1899	Gr.	m_0	g	Epoche und Osculation	Mittl. Aequ.	M	ω
							° ′ ″	° ′ ″
201 Penelope . .	Febr. 3	12.7	11.9	8.6	1897 Nov. 15.0	1900.0	53 1 14.6	177 43 7.9
202 Chryseïs . .	Mai 31	10.9	10.7	6.7	1896 Nov. 20.0	1900.0	296 12 57.2	355 17 6.8
203 Pompeja . .	Jan. 16	11.6	11.7	8.3	1899 Jan. 9.0	1900.0	65 39 8.5	53 45 40.9
204 Kallisto . . .	Febr. 12	12.1	12.0	8.7	1888 Nov. 2.0	1900.0	140 55 19.4	51 16 43.4
205 Martha . . .	—	—	12.7	9.2	1886 Febr. 26.0	1900.0	139 40 10.2	172 8 57.2
206 Hersilia . . .	Jan. 9	11.8	12.0	8.6	1887 Juni 21.0	1900.0	184 57 36.2	300 24 1.3
207 Hedda . . .	Juli 17	11.8	11.8	9.5	1898 Febr. 3.0	1900.0	280 15 16.2	190 38 9.4
208 Lacrimosa . .	Nov. 24	12.0	12.1	8.4	1899 Nov. 25.0	1900.0	315 23 43.1	105 47 29.6
209 Dido	März 28	11.4	11.6	7.5	1897 Dec. 25.0	1900.0	222 33 3.9	249 37 7.2
210 Isabella . . .	März 5	12.7	12.5	9.1	1897 Oct. 26.0	1900.0	358 48 23.3	10 17 7.0
211 Isolda	Aug. 2	11.8	11.5	7.5	1895 Nov. 26.0	1900.0	1 10 4.0	170 42 54.3
212 Medea	Aug. 14	12.1	12.2	8.1	1899 Juli 28.0	1900.0	276 2 57.4	101 16 47.5
213 Lilaea	Mai 18	11.0	11.7	8.3	1898 Febr. 23.0	1900.0	229 20 37.9	158 34 56.7
214 Aschera . . .	Oct. 25	12.1	12.1	9.0	1897 April 9.0	1900.0	71 25 59.3	128 5 59.2
215 Oenone . . .	Juni 17	12.8	12.8	9.4	1891 Nov. 7.0	1890.0	55 44 10.3	314 3 11.3
216 Kleopatra . .	April 26	11.3	10.1	6.6	1886 Juni 26.0	1900.0	277 9 56.8	176 12 8.3
217 Eudora . . .	Juni 1	11.9	13.1	9.5	1889 Mai 1.0	1900.0	296 55 48.4	150 23 31.7
218 Bianca . . .	—	—	11.3	8.1	1889 Oct. 8.0	1900.0	134 31 18.9	59 2 8.1
219 Thusnelda .	—	—	11.2	8.8	1889 Jan. 21.0	1900.0	130 33 20.7	140 3 56.2
220 Stephania . .	Mai 8	13.5	13.6	11.0	1887 Jan. 0.5	1881.0	131 12 41.6	75 9 17.1
221 Eos	Mai 26	11.1	11.2	7.3	1889 Juni 30.0	1900.0	322 54 24.2	187 21 38.9
222 Lucia	März 28	12.5	12.9	8.8	1898 Jan. 14.0	1900.0	225 34 56.4	175 50 37.7
223 Rosa	April 15	13.3	13.3	9.2	1891 Dec. 17.0	1900.0	333 11 14.5	58 36 24.6
224 Oceana . . .	März 12	11.7	11.7	8.5	1890 Febr. 5.0	1900.0	225 24 48.8	276 55 27.3
225 Henrietta . .	Jan. 10	14.0	12.7	8.2	1897 Dec. 5.0	1900.0	107 58 34.0	97 59 44.8
226 Weringia . .	März 30	13.1	13.0	9.7	1891 Aug. 19.0	1900.0	30 52 14.2	150 8 35.2
227 Philosophia .	Sept. 9	13.2	12.9	8.7	1896 Dec. 10.0	1900.0	283 51 33.6	254 29 54.3
228 Agathe . . .	Dec. 37	15.3	14.5	12.4	1892 Nov. 21.5	1900.0	49 45 10.8	16 3 45.6
229 Adelinda . .	März 30	14.0	13.5	8.9	1892 Febr. 15.0	1900.0	179 22 22.0	303 20 46.6
230 Athamantis .	Febr. 28	10.6	10.3	7.7	1897 Oct. 26.0	1900.0	11 22 17.7	137 13 14.1
231 Vindobona .	—	—	12.4	8.6	1898 Nov. 10.0	1900.0	164 53 38.2	263 38 47.9
232 Russia . . .	Jan. 2	13.4	13.4	10.4	1898 Dec. 20.0	1900.0	278 44 40.1	48 16 14.3
233 Asterope . .	Jan. 0	11.6	11.3	8.1	1897 Aug. 27.0	1900.0	353 18 46.2	122 36 1.0
234 Barbara . . .	—	—	11.7	9.1	1898 Oct. 21.0	1900.0	33 57 10.0	190 6 49.6
235 Carolina . .	—	—	12.2	8.5	1897 Sept. 16.0	1900.0	73 32 29.3	207 24 1.2
236 Honoria . . .	Juni 30	11.0	11.4	7.9	1890 Aug. 20.5	1900.0	341 11 56.1	170 30 28.5
237 Coelestina . .	Oct. 27	13.0	12.8	9.4	1897 März 20.0	1900.0	258 3 0.9	196 24 10.8
238 Hypatia . . .	Sept. 11	11.3	11.7	8.0	1890 Dec. 22.0	1900.0	52 21 20.5	205 49 38.9
239 Adrastea . .	Juli 9	14.1	14.2	10.4	1892 Febr. 15.0	1900.0	128 25 5.1	205 14 35.1
240 Vanadis . .	Febr. 5	12.2	12.5	9.3	1899 Febr. 18.0	1900.0	63 55 57.6	297 29 15.8

☊	i	φ	μ	Log. a	Autorität
157° 9′ 13.″8	5° 43′ 19.3	10 25 29.0	809.8341	0.4277403	Oberstl. Richter.
137 46 20.6	8 49 30.7	5 51 45.4	659.4551	0.4872142	A. Berberich.
348 38 9.2	3 12 15.3	3 28 23.6	783.8637	0.4371774	A. Berberich.
205 53 55.1	8 17 7.5	9 51 34.4	812.2343	0.4268835	A. Palisa.
212 26 1.6	10 39 57.5	1 54 54.4	765.9190	0.4438825	Prof. Küstner.
145 25 45.0	3 45 29.5	2 19 59.5	782.3554	0.437735	Dr. Stechert.
28 58 10.3	3 48 59.9	1 39 3.3	1027.9888	0.3586788	Oberstl. Richter.
5 17 34.0	1 47 10.4	0 54 11.9	721.0639	0.4613553	A. Berberich.
2 0 10.2	7 14 28.1	3 46 48.0	636.9545	0.4972654	Oberstl. v. d. Groeben.
33 3 14.5	5 18 7.1	7 6 30.8	790.0977	0.4348838	A. Berberich.
265 19 9.6	3 52 0.4	9 15 38.7	668.6041	0.4832250	Oberstl. v. d. Groeben.
315 6 54.5	4 16 51.0	6 40 42.2	647.3973	0.4925571	Prof. L. Becker.
122 28 12.8	6 46 30.6	8 19 49.1	777.0010	0.4397237	Prof. A. Leman.
342 32 52.4	3 27 33.7	1 55 49.3	840.5265	0.4169701	Tietjen.
25 14 14.4	1 43 15.1	2 1 15.8	771.4078	0.4418151	Oberstl. v. d. Groeben.
216 0 17.8	13 2 25.9	14 31 20.7	759.7703	0.4462182	Prof. Knopf.
164 8 53.6	10 16 30.8	18 1 5.2	730.2884	0.4576747	Oberstl. Richter.
171 2 56.0	15 12 16.9	6 40 5.1	815.0438	0.4258837	Oberstl. v. d. Groeben.
200 56 29.1	10 47 21.0	12 54 38.9	982.2924	0.3718439	A. Darmer.
258 26 26.6	7 34 15.0	14 53 43.7	984.634	0.371154	Dr. Bidschof.
142 39 44.8	10 51 15.2	5 50 34.9	678.2597	0.4790737	Oberstl. v. d. Groeben.
80 22 0.5	2 10 46.6	8 27 39.8	641.7676	0.4950859	A. Berberich.
48 42 6.0	1 58 42.6	6 57 1.2	652.9374	0.4900900	Oberstl. v. d. Groeben.
353 31 34.5	5 52 23.2	2 25 51.0	824.6755	0.4224824	Dr. S. Oppenheim.
200 48 28.8	20 41 16.4	15 14 24.6	566.6635	0.531121	Dr. Cerulli.
135 30 54.5	15 49 34.2	11 43 4.3	793.2109	0.433745	Prof. H. Kreutz.
331 1 10.1	9 14 55.8	12 2 39.9	637.0300	0.4972311	H. Lange.
313 35 24.5	2 33 18.0	13 55 0.2	1086.2400	0.3427205	Prof. H. Kreutz.
30 54 33.1	2 10 13.6	8 43 20.4	563.5620	0.5327099	A. Berberich.
239 44 27.5	9 25 13.5	3 32 52.8	964.9093	0.3770134	Oberstl. Richter.
352 16 1.4	5 8 13.8	8 56 36.2	711.1049	0.4653820	H. Lange.
152 27 53.4	6 4 17.7	9 52 51.0	869.2983	0.4072251	Oberstl. v. d. Groeben.
222 31 21.5	7 39 7.6	5 49 43.8	817.9445	0.4248552	Prof. Knopf.
144 16 54.2	15 21 18.3	14 7 1.5	962.6609	0.3776889	Tietjen.
66 34 7.6	9 4 1.8	3 31 18.9	725.2712	0.4596708	Tietjen.
186 40 30.6	7 36 53.0	10 54 45.4	758.1024	0.446853	Dr. Bidschof.
84 36 28.9	9 45 48.8	4 1 30.3	771.8775	0.4416388	Dr. B. Schwarz.
184 29 51.9	12 22 2.7	4 57 30.6	715.5896	0.4635617	A. Berberich.
181 40 9.4	6 7 41.4	13 7 38.0	691.2906	0.4735639	A. Berberich.
114 57 18.1	2 5 50.1	12 6 26.6	816.6267	0.4253220	A. Berberich.

Nr. und Name	Opposition 1899	Gr.	m_0	g	Epoche und Osculation	Mittl. Aequ.	M	ω
241 Germania . .	Juni 13	11.1	11.2	7.2	1899 Juni 18.0	1900.0	289° 28′ 7″.9	72° 55′ 36″.6
242 Kriemhild . .	Dec. 14	12.1	12.6	9.0	1889 Dec. 27.0	1900.0	307 49 54.4	274 28 30.0
243 Ida	Dec. 13	13.1	13.3	9.7	1891 Febr. 20.0	1900.0	71 29 26.5	108 8 40.0
244 Sita	Mai 2	14.4	13.7	11.7	1892 Febr. 15.0	1900.0	128 16 2.7	164 6 55.9
245 Vera	Juli 25	12.3	12.5	8.5	1897 März 20.0	1900.0	141 1 15.6	326 19 24.6
246 Asporina . .	Juni 10	11.1	11.7	8.4	1890 Jan. 16.0	1900.0	316 40 26.7	94 5 3.7
247 Eukrate . . .	April 5	11.9	11.0	7.6	1899 März 30.0	1900.0	129 34 5.8	53 11 19.6
248 Lameia . . .	—	—	13.0	10.2	1900 März 25.0	1900.0	293 0 27.6	2 20 6.9
249 Ilse	Mai 10	14.5	13.6	11.1	1896 Sept. 1.0	1900.0	332 23 24.0	39 16 10.3
250 Bettina . . .	März 2	11.5	11.7	7.6	1897 Nov. 15.0	1900.0	332 5 23.0	65 59 32.9
251 Sophia . . .	April 6	13.8	13.6	9.6	1899 März 30.0	1900.0	99 36 57.0	286 7 17.4
252 Clementina .	Febr. 24	13.4	13.0	8.8	1886 Jan. 4.5	1900.0	36 46 22.1	151 39 41.5
253 Mathilde . .	—	—	13.4	10.2	1898 Nov. 10.0	1900.0	55 7 48.0	153 43 45.8
254 Augusta . .	April 16	12.8	13.4	11.3	1887 Juli 31.0	1900.0	101 27 54.0	230 48 36.7
255 Oppavia . .	Febr. 2	13.4	13.8	10.4	1889 März 2.0	1900.0	267 18 9.8	149 8 2.5
256 Walpurga . .	Nov. 19	13.5	13.2	9.3	1898 Aug. 22.0	1900.0	104 30 41.1	42 51 31.4
257 Silesia	Sept. 8	12.5	12.8	8.7	1898 Juni 3.0	1900.0	212 13 25.8	27 40 46.7
258 Tyche	Mai 27	11.4	11.1	8.0	1898 Dec. 20.0	1900.0	230 47 36.3	152 30 28.2
259 Aletheia . .	Nov. 14	12.7	12.1	8.0	1898 Sept. 11.0	1900.0	85 40 51.4	156 12 30.0
260 Huberta . .	Sept. 26	13.2	13.9	9.2	1899 Sept. 26.0	1900.0	24 19 40.0	163 53 28.2
261 Prymno . . .	Mai 18	11.7	11.9	9.4	1897 Nov. 15.0	1900.0	275 46 18.1	63 6 35.9
262 Valda	—	—	14.1	11.1	1898 Oct. 1.0	1900.0	317 1 53.3	22 34 20.0
263 Dresda . . .	Mai 8	13.6	13.3	9.6	1891 Nov. 7.0	1900.0	30 5 12.4	154 37 51.1
264 Libussa . . .	Juni 13	12.4	12.1	8.6	1894 Juni 4.0	1900.0	224 30 49.9	336 35 29.0
265 Anna	Aug. 20	13.6	13.8	11.1	1891 April 21.0	1900.0	353 3 42.4	250 37 43.4
266 Aline	—	—	11.7	8.2	1895 Sept. 7.0	1900.0	146 57 35.3	148 15 54.7
267 Tirza	—	—	14.0	10.5	1898 Dec. 20.0	1900.0	167 41 8.3	193 39 22.8
268 Adorea . . .	Sept. 4	13.2	12.5	8.5	1897 Febr. 28.0	1900.0	348 19 31.1	58 53 34.1
269 Justitia . . .	April 30	11.8	12.7	9.6	1899 April 19.0	1900.0	321 7 36.6	115 23 45.5
270 Anahita . . .	März 22	11.7	11.0	8.9	1899 März 10.0	1900.0	216 27 35.3	77 51 44.1
271 Penthesilea .	—	—	12.8	8.9	1898 Nov. 30.0	1900.0	45 2 21.6	50 24 5.2
272 Antonia . . .	Aug. 7	13.7	13.6	10.1	1899 Juli 28.0	1900.0	208 59 58.9	65 31 30.6
273 Atropos . . .	Febr. 14	12.1	11.6	9.0	1888 März 9.5	1900.0	261 20 1.8	118 28 18.0
274 Philagoria .	Mai 19	12.9	13.6	9.6	1899 Mai 29.0	1900.0	24 20 51.9	115 34 59.3
275 Sapientia . .	Oct. 14	12.6	12.0	8.5	1892 Jan. 0.5	1900.0	310 42 1.0	31 41 13.9
276 Adelheid . .	April 22	11.7	11.2	7.7	1898 Jan. 14.0	1900.0	357 5 29.5	273 15 10.4
277 Elvira	Aug. 12	12.7	13.1	9.4	1895 Nov. 26.0	1900.0	49 32 45.6	130 57 57.9
278 Paulina . . .	Nov. 12	13.3	12.7	9.3	1899 Nov. 5.0	1900.0	218 13 40.4	135 31 8.8
279 Thule	Dec. 42	14.1	13.8	8.1	1891 Febr. 20.0	1900.0	155 36 48.8	233 20 26.5
280 Philia	—	—	14.4	10.6	1898 Oct. 21.0	1900.0	305 54 14.0	81 0 22.2

☊	i	φ	μ	Log. a	Autorität
271° 59′ 1.5″	5° 30′ 41.2″	5° 26′ 22.8″	665.6150	0.4845223	Dr. W. Luther.
208 7 41.0	11 16 55.9	7 5 15.3	732.9031	0.4566401	Dr. Herz.
326 12 37.1	1 9 24.1	2 36 14.2	732.7866	0.456686	A. Berberich.
208 42 52.7	2 49 36.0	7 52 41.8	1106.4689	0.337378	A. Berberich.
62 1 46.7	5 11 18.2	11 37 34.2	651.4943	0.4907307	Tietjen.
162 45 44.0	15 37 40.4	6 2 43.0	802.267	0.4304584	Seydler.
0 25 52.5	25 6 52.8	13 52 18.4	780.7096	0.4383447	Dr. W. Luther.
246 38 32.5	4 0 59.9	3 42 45.7	913.9068	0.3927365	A. Berberich.
334 49 10.0	9 41 8.0	12 28 25.6	967.8662	0.37611	A. Berberich.
25 37 2.6	12 56 21.1	7 1 48.1	633.7875	0.4987086	Dr. Mönnichmeyer.
157 10 23.6	10 29 15.5	5 27 46.9	648.7178	0.4919671	Prof. Knopf.
203 31 27.0	10 1 21.0	4 47 12.7	633.6479	0.498772	A. Charlois.
180 1 26.7	6 38 17.9	15 26 37.5	824.4270	0.4225696	Prof. Knopf.
28 20 51.6	4 31 59.3	6 58 7.6	1091.0836	0.3414323	Dr. B. Schwarz.
14 13 57.4	9 30 38.6	4 40 24.1	780.0705	0.4385818	Dr. Laves.
183 38 33.9	13 18 5.8	3 29 51.3	682.3532	0.477331	A. Berberich.
35 25 53.6	3 40 7.7	7 4 44.5	646.3453	0.4930280	A. Berberich.
207 44 56.0	14 14 45.1	11 47 55.4	837.7900	0.4179143	Dr. Stechert.
88 30 20.5	10 42 50.0	6 20 21.0	635.7631	0.4978075	Tietjen.
167 56 17.2	6 18 1.3	7 6 5.3	554.9846	0.5371505	Oberstl.v.d.Groeben.
96 20 56.7	3 38 28.8	5 9 55.6	996.7804	0.367605	Oberstl.v.d.Groeben
38 37 12.9	7 44 20.6	12 18 2.0	870.2059	0.4069230	A. Berberich.
217 47 57.4	1 16 33.1	4 27 35.5	723.4893	0.4603830	Oberstl.v.d.Groeben.
50 4 47.6	10 26 47.9	7 45 36.5	757.4897	0.447087	Dr. Cerulli.
335 35 51.4	25 45 37.2	15 6 23.8	941.2152	0.3842118	A. Berberich.
236 26 29.4	13 21 24.2	9 10 39.7	756.6188	0.4474197	A. Berberich.
74 3 30.8	6 1 29.1	5 43 23.8	767.9409	0.4431192	Oberstl.v.d.Groeben.
121 47 20.9	2 25 23.5	7 54 36.0	652.1602	0.4904349	A. Berberich.
157 29 57.1	5 25 55.5	12 19 59.6	838.6472	0.4176182	A. Berberich.
254 33 14.5	2 21 33.8	8 39 18.5	1088.8455	0.3420269	A. Berberich.
337 5 40.9	3 34 37.4	5 57 1.3	680.9916	0.4779099	Prof. Knopf.
37 43 34.9	4 28 27.5	1 46 56.3	767.2554	0.4433777	A. Charlois.
158 58 44.0	20 24 5.4	9 19 0.4	955.4037	0.379880	H. Lange.
93 42 12.5	3 40 47.1	7 14 43.7	668.8847	0.4831036	A. Berberich.
134 49 32.3	4 44 46.6	9 26 8.8	769.8126	0.4424144	H. Lange.
211 32 24.1	21 36 5.7	3 51 5.7	645.3736	0.4934636	J. Hackenberg.
233 40 41.7	1 7 39.2	4 59 35.2	724.7014	0.4598983	A. Berberich.
62 31 11.4	7 49 10.4	7 35 40.4	775.5978	0.4402467	A. Berberich.
75 32 38.2	2 22 34.9	4 43 14.2	403.1860	0.629667	Dr. Bidschof.
11 17 31.0	7 27 26.9	6 20 6.6	703.4764	0.468505	A. Berberich.

Nr. und Name	Opposition 1899	Gr.	m_0	g	Epoche und Osculation	Mittl. Aequ.	M	ω
281 Lucretia . .	Jan. 6	13.1	13.6	11.5	1888 Nov. 2.5	1900.0	353° 48′ 12.3″	14° 13′ 10.2″
282 Clorinde . .	—	—	13.3	10.8	1889 Jan. 28.5	1900.0	51 7 9.5	293 37 1.2
283 Emma	Jan. 1	11.9	11.8	7.8	1898 Dec. 20.0	1900.0	85 31 17.9	50 11 29.8
284 Amalia . . .	Jan. 21	14.1	12.9	10.4	1899 Jan. 29.0	1900.0	203 3 4.2	55 37 41.9
285 Regina . . .	Mai 5	14.8	14.9	10.9	1889 Aug. 19.5	1900.0	357 36 27.2	12 29 9.3
286 Iclea	Mai 5	13.3	13.2	9.0	1889 Aug. 3.5	1900.0	321 54 28.8	215 3 10.1
287 Nephthys . .	April 24	10.7	10.7	8.2	1899 April 19.0	1900.0	311 52 37.9	117 32 24.2
288 Glauke . . .	Jan. 26	12.0	12.5	9.1	1899 Jan. 29.0	1900.0	307 4 28.1	80 49 8.8
289 Nenetta . . .	—	—	12.5	8.8	1898 Dec. 20.0	1900.0	56 50 25.7	185 38 48.2
290 Bruna	Oct. 3	14.6	13.9	11.5	1890 Mai 7.5	1900.0	56 49 22.1	103 32 37.8
291 Alice	—	—	13.6	11.4	1893 März 1.0	1900.0	24 17 20.6	329 53 57.6
292 Ludovica . .	Sept. 6	12.3	12.5	9.5	1899 Sept. 26.0	1900.0	10 5 58.6	287 46 46.4
293 Brasilia . . .	März 19	12.3	12.9	9.2	1890 Juni 17.5	1900.0	92 28 41.4	82 22 8.5
294 Felicia . . .	Febr. 13	15.5	14.3	10.2	1890 Oct. 2.5	1900.0	8 44 31.0	180 17 29.4
295 Theresia . .	Juli 28	13.7	13.5	10.0	1893 April 2.5	1900.0	137 36 11.4	143 12 5.2
296 Phaëtusa . .	April 4	14.6	13.3	11.1	1890 Aug. 22.0	1900.0	330 33 11.7	250 2 1.2
297 Caecilia . . .	Febr. 20	14.0	13.3	9.1	1899 Jan. 29.0	1900.0	190 23 40.3	347 3 46.8
298 Baptistina .	April 15	13.3	13.5	11.3	1899 März 30.0	1900.0	51 22 55.7	132 37 48.2
299 Thora	—	—	14.5	11.7	1890 Dec. 8.5	1900.0	12 46 6.0	149 22 10.6
300 Geraldina . .	März 10	14.1	13.9	9.6	1890 Oct. 4.0	1900.0	32 52 27.2	288 44 32.5
301 Bavaria . . .	Nov. 12	12.4	12.2	8.8	1898 Juni 3.0	1900.0	27 15 36.8	120 11 29.6
302 Clarissa . . .	—	—	13.9	11.2	1890 Nov. 15.5	1900.0	328 21 44.7	51 52 55.4
303 Josephina . .	Aug. 18	12.0	12.0	7.9	1899 Sept. 6.5	1900.0	58 3 53.4	72 48 29.6
304 Olga	April 15	12.9	12.4	9.7	1899 April 19.0	1900.0	257 30 20.2	169 41 1.2
305 Gordonia . .	Aug. 9	13.2	12.5	8.4	1891 Mai 28.5	1900.0	47 58 29.5	251 25 26.6
306 Unitas . . .	Juni 14	9.9	10.7	8.2	1899 Juni 18.5	1900.0	328 21 57.6	165 19 10.9
307 Nike	Nov. 3	12.3	13.1	9.4	1891 März 8.5	1900.0	74 34 39.6	320 15 5.6
308 Polyxo . . .	—	—	11.0	7.6	1898 Nov. 30.0	1900.0	143 53 10.9	111 24 55.6
309 Fraternitas .	Febr. 14	13.3	12.7	9.5	1891 Mai 11.5	1900.0	239 5 58.0	332 8 11.1
310 Margarita . .	—	—	13.5	10.1	1891 Mai 16.5	1900.0	43 37 28.5	318 27 8.9
311 Claudia . . .	—	—	13.0	9.3	1895 März 11.0	1900.0	37 0 15.1	54 55 29.3
312 Pierretta . .	März 31	12.1	12.5	9.0	1891 Aug. 29.0	1900.0	74 55 14.0	257 42 14.4
313 Chaldaea . .	Dec. 3	9.6	10.3	7.7	1899 Nov. 25.0	1900.0	314 36 54.4	313 8 8.8
314 Rosalia . . .	Jan. 31	14.7	14.0	9.9	1891 Dec. 3.5	1900.0	17 47 52.5	185 35 52.8
315 Constantia .	—	—	14.0	11.8	1891 Sept. 4.5	1900.0	9 27 44.6	171 22 17.8
316 Goberta . . .	Jan. 19	12.7	13.3	9.1	1893 Jan. 0.0	1900.0	11 29 4.9	307 28 10.6
317 Roxane . . .	—	—	12.2	9.8	1893 Jan. 20.0	1900.0	141 13 30.2	184 48 17.9
318 Magdalena .	—	—	13.2	9.0	1897 Sept. 16.0	1900.0	277 41 40.8	273 34 0.0
319 Leona	—	—	14.2	9.7	1897 Sept. 16.0	1900.0	317 26 15.7	218 24 48.9
320 Katharina . .	März 8	14.8	14.2	10.3	1891 Dec. 2.5	1900.0	23 36 28.6	142 54 36.1

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
31 10 9.0	5 19 33.9	7 34 24.3	1098.5312	0.3394628	A. Berberich.
144 46 42.1	9 0 45.4	4 42 1.7	991.5638	0.369124	A. Berberich.
305 43 6.6	8 2 22.3	8 46 40.1	668.7034	0.483182	A. Berberich.
233 55 46.7	8 3 59.8	12 48 24.9	979.7632	0.3725903	A. Berberich.
312 10 29.6	17 16 54.4	11 55 35.4	661.4827	0.4863254	A. Charlois.
149 45 6.2	17 55 10.0	0 50 22.1	621.707	0.504281	A. Berberich.
142 5 45.7	10 1 24.1	1 19 35.4	982.6631	0.371735	Dr. Cerulli.
121 0 16.6	4 19 53.7	11 55 21.5	774.4471	0.4406765	Prof. R. Luther.
182 36 21.4	6 39 24.7	11 54 6.1	728.7476	0.4582863	A. Berberich.
10 27 0.1	22 13 23.6	15 4 22.7	995.1925	0.368066	Dr. S. Oppenheim.
161 5 18.1	1 50 31.5	5 18 23.6	1071.2264	0.3467502	A. Berberich.
43 5 37.7	14 52 13.9	1 36 45.3	881.3701	0.4032322	A. Berberich.
62 12 47.0	15 45 19.2	6 48 2.9	730.8370	0.4574574	A. Charlois.
137 1 48.4	6 14 56.2	14 30 22.2	639.9696	0.4958982	A. Charlois.
277 44 23.8	2 40 29.2	9 39 53.5	758.0112	0.446887	Dr. S. Oppenheim.
120 55 34.0	1 44 50.1	9 6 25.9	1068.122	0.3475906	J. Coniel.
333 38 56.5	7 34 53.5	8 10 59.9	630.6289	0.500155	A. Berberich.
8 1 53.2	6 17 52.7	5 32 3.7	1041.4206	0.354920	A. Berberich.
241 47 37.2	1 35 35.4	3 28 39.7	933.388	0.386630	A. Berberich.
42 24 26.7	0 46 56.7	2 25 30.4	617.4432	0.5062729	J. Coniel.
142 32 49.3	4 52 40.5	3 32 45.1	788.3538	0.435524	A. Berberich.
7 54 32.4	3 26 7.0	6 37 22.0	941.7185	0.3840570	A. Berberich.
345 15 23.8	6 54 51.5	3 53 41.6	643.8778	0.4941354	Prof. Millosevich.
158 49 32.5	15 47 31.6	12 48 23.8	951.9060	0.3809417	A. Berberich.
211 7 37.8	4 24 42.0	11 28 45.8	652.7433	0.4901761	A. Berberich.
141 36 20.8	7 15 13.3	8 39 29.5	980.0268	0.3725126	Prof. Millosevich.
101 39 16.0	6 6 55.5	8 22 32.2	716.1102	0.4633512	A. Capon.
182 8 34.6	4 19 42.6	2 14 13.5	778.2355	0.4392627	A. Berberich.
357 59 42.1	3 56 13.6	5 1 56.0	831.679	0.420034	A. Berberich.
230 37 4.6	3 7 7.3	6 39 44.6	774.1717	0.440780	Nordenmark.
80 7 5.7	3 15 57.0	0 43 21.9	720.425	0.461612	A. Berberich.
7 35 14.0	9 5 36.4	9 9 55.4	764.051	0.444589	Masson.
176 41 44.6	11 35 10.6	10 21 51.6	968.4446	0.3759545	A. Berberich.
171 21 31.7	12 33 36.4	10 48 58.3	635.8075	0.497787	A. Berberich.
161 14 14.6	2 24 35.4	9 40 17.9	1057.2646	0.3505486	Prof. Bohlin.
124 32 14.0	2 18 36.5	7 57 58.6	627.7382	0.501585	A. Berberich.
150 48 2.3	1 45 11.2	4 54 51.2	1026.0260	0.3592321	A. Berberich.
162 52 21.2	10 31 47.3	3 59 50.2	617.8728	0.506072	H. Mader.
189 2 57.8	10 41 56.3	12 39 2.5	566.2278	0.536503	A. Berberich.
221 3 52.6	9 19 19.2	6 41 30.5	678.726	0.478875	A. Berberich.

Nr. und Name	Opposition 1899	Gr.	m_0	g	Epoche und Osculation	Mittl. Aequ.	M			ω		
							°	′	″	°	′	″
321 Florentina .	Mai 13	13.4	13.2	9.5	1899 Mai 29.0	1900.0	160	17	3.3	32	54	5.1
322 Phaeo	Mai 16	12.9	12.3	8.8	1899 Mai 29.0	1900.0	259	0	14.9	110	44	29.7
323 Brucia . . .	—	—	13.0	11.0	1892 Jan. 1.5	1891.0	43	0	42	292	17	48
324 Bamberga .	Dec. 12	8.6	9.9	6.6	1899 Dec. 35.0	1900.0	43	12	35.7	40	24	34.4
325 Heidelberga	Mai 18	12.7	12.4	8.1	1899 Mai 29.0	1900.0	182	23	56.4	73	47	31.1
326 Tamara . . .	März 31	10.9	11.1	8.7	1892 März 20.0	1900.0	298	49	14.0	236	57	27.0
327 Columbia . .	Dec. 11	13.3	13.0	9.5	1892 Juni 17.5	1900.0	277	51	46.7	301	24	49.3
328 Gudrun . . .	Juli 6	12.9	12.3	8.2	1892 März 22.5	1900.0	68	47	1.5	102	54	10.3
329 Svea	—	—	12.1	9.3	1898 Dec. 20.0	1900.0	230	20	49.8	39	55	21.2
330 Adalberta .	—	—	13.5	11.7	1892 März 20.5	1892.0	181	3	42	0	0	0
331 Etheridgea .	Oct. 7	11.9	12.5	8.5	1892 Mai 14.5	1900.0	230	8	15.0	332	6	6.8
332 Siri	Nov. 30	12.6	12.6	9.1	1896 Jan. 18.5	1900.0	146	23	20.5	298	49	45.5
333 Badenia . .	—	—	12.7	8.6	1898 Oct. 21.0	1900.0	18	43	23.3	15	25	28.8
334 Chicago . . .	Juli 25	12.0	12.0	6.8	1897 März 11.5	1900.0	183	2	28.8	236	38	52.7
335 Roberta . . .	April 16	11.3	11.6	8.8	1899 April 19.0	1900.0	297	32	22.0	140	30	9.1
336 Lacadiera . .	Oct. 31	12.2	11.8	9.6	1892 Sept. 20.5	1900.0	94	0	27.2	26	35	57.8
337 Devosa . . .	Aug. 20	11.8	11.4	8.8	1892 Sept. 27.5	1900.0	294	4	18.0	95	56	50.5
338 Budrosa . .	Jan. 9	12.1	12.1	8.4	1899 Jan. 9.0	1900.0	72	15	37.1	106	31	43.7
339 Dorothea . .	—	—	12.8	8.8	1898 Nov. 10.0	1900.0	91	52	45.5	156	53	24.5
340 Eduarda . .	März 24	13.1	12.9	9.5	1892 Sept. 29.5	1900.0	312	48	10.9	38	38	32.3
341 California . .	Dec. 18	13.6	13.1	11.0	1892 Oct. 26.5	1900.0	38	17	54.3	292	55	10.5
342 Endymion .	Juni 22	13.5	12.8	9.8	1896 Oct. 11.0	1900.0	298	36	28.2	222	26	9.0
343 Ostara . . .	Aug. 8	13.2	13.5	10.9	1893 Jan. 8.5	1900.0	22	47	57.8	6	39	53.6
344 Desiderata .	März 5	12.2	11.7	8.5	1899 März 10.0	1900.0	268	25	23.9	233	28	43.5
345 Tercidina . .	Oct. 25	11.0	11.2	8.8	1899 Nov. 5.0	1900.0	319	52	4.6	227	52	36.6
346 Hermentaria	März 26	12.0	11.5	8.0	1896 Sept. 1.0	1900.0	322	2	44.3	287	9	28.5
347 Pariana . . .	Juli 26	11.9	12.0	8.8	1899 Juli 8.5	1900.0	114	13	11.1	83	20	5.0
348 May	Febr. 16	12.5	12.9	9.1	1893 Jan. 16.5	1900.0	342	45	57.1	2	27	58.8
349 Dembowska	März 6	10.2	9.8	6.0	1895 Mai 10.0	1900.0	229	5	49.2	340	37	27.8
350 [1892 *U*] . .	Jan. 29	12.3	12.7	8.6	1897 Oct. 26.0	1900.0	328	52	25.2	330	18	43.4
351 Yrsa	Juni 10	12.7	12.2	8.8	1892 Dec. 20.5	1900.0	330	42	48.8	28	8	55.8
352 Gisela . . .	—	—	12.1	10.0	1898 Febr. 3.0	1900.0	272	9	54.9	142	2	32.2
353 [1893 *F*] . .	Mai 28	15.7	14.2	10.9	1893 Febr. 22.5	1900.0	44	13	13.5	318	29	18.5
354 Eleonora . .	Juni 22	10.4	10.0	6.5	1894 Mai 14.5	1900.0	81	5	20.5	4	47	2.1
355 [1893 *E*] . .	Aug. 23	13.3	13.1	10.1	1893 Febr. 23.5	1900.0	37	15	11.6	94	32	57.3
356 [1893 *G*] . .	Mai 27	13.1	11.9	8.5	1893 Febr. 23.5	1900.0	45	55	30.7	73	42	13.9
357 [1893 *J*] . .	März 24	12.5	12.2	8.0	1893 Febr. 15.5	1900.0	138	27	1.7	231	51	54.9
358 [1893 *K*] . .	Mai 25	13.2	12.5	8.8	1893 März 10.5	1900.0	86	52	43.5	248	18	54.8
359 [1893 *M*] . .	—	—	13	9.5	1893 März 17.5	1893.0	163	43	16	0	0	0
360 [1893 *N*] . .	Mai 8	12.7	11.9	8.0	1893 März 12.5	1900.0	92	54	10.8	284	2	41.3

☊	*i*	φ	μ	Log. *a*	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
40 42 33.5	2 37 39.0	2 35 33.5	722.5711	0.460750	A. Berberich.
253 43 3.6	7 58 35.3	14 19 10.5	763.8628	0.444661	A. Berberich.
97 2 30	19 20 54	15 57 36	1119.60	0.333960	A. Berberich.
329 0 17.5	11 18 15.1	19 45 58.0	807.7841	0.4284742	A. Berberich.
345 23 24.8	8 33 25.7	8 57 33.6	615.3697	0.5072470	A. Berberich.
32 0 53.7	23 47 18.7	10 48 17.5	1005.7638	0.365007	Dr. Bidschof.
355 31 43.7	7 9 8.5	3 41 7.4	765.613	0.443998	A. Berberich.
353 13 38.9	16 8 12.3	6 53 58.6	647.507	0.492508	A. Berberich.
178 23 41.9	16 0 50.0	1 33 12.6	911.5616	0.393480	Dr. Pannekoek.
358 46 36	19 58 36	0 0 0	1174.9	0.32000	A. Berberich.
23 15 0.0	6 7 1.0	5 31 33.6	673.548	0.481092	A. Berberich.
32 4 17.4	2 52 33.7	5 25 49.0	767.401	0.443323	A. Berberich.
355 17 21.9	3 50 29.6	10 8 45.8	644.6246	0.4937998	A. Berberich.
134 21 52.0	4 38 18.2	0 55 12.0	460.021	0.591486	A. Berberich.
147 54 41.4	5 5 54.8	10 16 58.4	911.2021	0.3935946	A. Berberich.
234 32 34.9	5 41 58.5	5 20 28.2	1047.590	0.353210	A. Berberich.
355 33 40.9	7 51 46.5	8 0 46.5	963.729	0.377367	J. Coniel.
288 30 53.0	6 2 39.2	1 12 38.1	713.531	0.464396	J. Coniel.
174 24 46.0	9 53 33.8	5 55 52.5	680.1413	0.4782717	A. Berberich.
27 39 3.0	4 42 39.4	6 57 0.3	777.339	0.439598	A. Berberich.
29 0 53.8	5 40 17.7	11 1 53.7	1086.631	0.342616	A. Berberich.
232 56 55.9	7 19 54.0	7 16 1.1	862.8231	0.4093899	A. Berberich.
38 40 49.4	3 18 14.7	13 22 35.2	948.712	0.381914	A. Berberich.
49 1 25.9	18 38 46.4	18 9 59.0	848.1163	0.414368	A. Berberich.
212 29 44.2	9 44 18.3	3 33 5.7	1000.5696	0.3665062	Dr. Viaro.
92 25 54.5	8 45 20.5	5 50 8.5	758.7743	0.446596	A. J. Roy.
85 56 16.8	11 42 20.2	9 34 55.9	840.8521	0.416858	Dr. Boccardi.
90 40 1.9	9 44 17.4	3 45 27.2	695.387	0.471854	M. Ebell.
33 3 23.2	8 16 38.5	5 9 33.0	709.497	0.466038	Dr. F. Ristenpart.
90 40 54.8	24 48 19.9	9 7 3.3	645.8230	0.4932621	A. Berberich.
99 40 8.4	9 13 3.4	8 45 46.5	771.582	0.441750	A. Berberich.
247 13 2.2	3 22 6.0	8 42 26.7	1091.7346	0.341260	A. Berberich.
103 6 14.2	5 32 21.7	18 49 43.3	794.611	0.433234	A. Berberich.
140 42 25.8	18 22 13.8	6 31 10.4	757.5785	0.4470526	Dr. Ciscato.
352 11 27.9	4 21 1.7	6 12 55.9	876.580	0.404810	A. Berberich.
356 19 12.0	8 16 56.4	13 55 20.4	773.437	0.441054	A. Berberich.
138 15 44.7	14 5 32.7	1 31 16.0	632.836	0.499142	J. Coniel.
172 59 54.3	3 31 25.8	8 26 24.1	725.524	0.459570	J. Coniel.
10 27 16	4 59 38	0 0 0	760.70	0.44586	A. Berberich.
133 42 48.4	11 38 10.1	9 43 35.9	681.803	0.477565	J. Coniel.

Nr. und Name	Opposition 1899	Gr.	m_0	g	Epoche und Osculation	Mittl. Aequ.	M ° ′ ″	ω ° ′ ″
361 [1893 *P*] . .	Dec. 34	12.2	13.3	8.0	1893 März 12.5	1900.0	53 40 44.9	75 12 0.9
362 [1893 *R*] . .	Oct. 19	10.8	11.1	8.0	1893 Mai 7.5	1900.0	129 21 30.1	30 38 35.0
363 [1893 *S*] . .	Juli 19	11.4	11.6	8.2	1898 April 24.0	1900.0	208 3 59.7	292 29 6.5
364 [1893 *T*] . .	—	—	11.7	9.5	1897 Juni 8.0	1900.0	200 43 50.0	310 50 15.6
365 [1893 *V*] . .	Juni 30	12.5	12.2	8.7	1899 Aug. 17.0	1900.0	268 1 48.6	209 44 57.1
366 [1893 *W*] .	April 25	12.3	12.3	8.2	1893 Mai 8.5	1900.0	259 13 25.4	314 25 21.3
367 [1893 *AA*] .	Jan. 28	11.9	12.5	10.3	1897 Aug. 27.0	1900.0	198 47 10.7	53 14 45.7
368 [1893 *AB*] .	Aug. 15	12.3	13.5	9.5	1893 Juli 17.5	1900.0	317 18 49.4	85 7 25.1
369 Aëria	Dec. 48	12.9	12.9	9.5	1893 Juli 5.5	1900.0	280 6 11.9	266 31 42.7
370 [1893 *AC*] .	Febr. 23	13.3	12.8	10.4	1893 Juli 14.5	1900.0	312 26 36.5	66 22 41.0
371 [1893 *AD*] .	Dec. 18	12.1	11.8	8.4	1898 Sept. 11.0	1900.0	81 58 49.1	339 52 57.6
372 [1893 *AH*] .	Oct. 3	9.6	10.5	6.4	1898 Aug. 22.0	1900.0	251 19 14.9	113 47 33.6
373 [1893 *AJ*] .	Nov. 8	12.3	12.8	8.7	1893 Dec. 2.5	1900.0	16 37 59.3	348 34 44.7
374 [1893 *AK*] .	—	—	11.7	8.2	1896 Sept. 1.0	1900.0	342 39 36.2	22 57 48.9
375 [1893 *AL*] .	Nov. 6	11.0	11.0	6.9	1893 Oct. 5.5	1900.0	43 44 15.5	342 35 23.5
376 [1893 *AM*] .	März 18	11.3	11.8	9.4	1899 März 10.0	1900.0	299 55 37.2	313 51 58.1
377 [1893 *AN*] .	—	—	11.5	8.2	1893 Oct. 7.5	1900.0	338 6 43.1	192 39 58.3
378 [1893 *AP*] .	Jan. 11	12.4	12.6	9.1	1899 Jan. 9.0	1900.0	70 43 4.5	153 0 2.7
379 [1894 *AQ*] .	—	—	12.6	8.5	1894 Jan. 12.5	1900.0	98 29 53.4	177 57 18.6
380 [1894 *AR*] .	März 5	13.2	12.6	9.3	1894 Jan. 11.0	1900.0	129 17 7.6	237 32 11.9
381 [1894 *AS*] .	—	—	12.4	8.1	1894 März 29.5	1900.0	230 33 55.9	146 54 5.2
382 [1894 *AT*] .	—	—	12.1	8.1	1894 Jan. 30.5	1900.0	284 42 8.7	268 14 18.6
383 [1894 *AU*] .	—	—	13.3	9.2	1894 April 5.5	1900.0	74 13 15.5	315 50 39.5
384 Burdigala . .	April 25	12.5	11.7	8.5	1899 April 9.5	1900.0	119 46 59.6	30 33 4.5
385 Ilmatar . . .	März 27	9.6	10.3	6.7	1897 Dec. 25.5	1900.0	281 17 34.4	185 13 17.5
386 [1894 *AY*] .	März 12	11.2	10.5	6.8	1899 März 10.0	1900.0	135 39 25.4	216 31 1.9
387 [1894 *AZ*] .	März 30	9.7	9.8	6.4	1895 Juli 3.5	1900.0	353 6 10.2	153 33 24.0
388 [1894 *BA*] .	Febr. 15	12.0	11.7	7.8	1894 Mai 6.5	1900.0	200 48 45.6	336 54 54.3
389 [1894 *BB*] .	Juni 2	10.9	11.1	8.0	1899 Juni 18.0	1900.0	63 27 27.4	262 50 47.8
390 [1894 *BC*] .	Mai 12	13.3	13.5	10.0	1894 März 27.5	1900.0	19 53 47.9	189 3 57.0
391 Ingeborg . .	Jan. 16	13.6	13.4	11.0	1894 Nov. 6.0	1900.0	23 31 40.5	145 19 2.0
392 Wilhelmina .	Oct. 16	12.2	12.2	8.3	1894 Nov. 4.5	1900.0	42 10 20.6	134 52 8.1
393 [1894 *BG*] .	Dec. 8	12.0	11.0	7.6	1894 Nov. 4.5	1900.0	67 32 29.0	85 38 13.6
394 [1894 *BH*] .	Dec. 23	13.4	13.0	9.6	1894 Nov. 23.5	1900.0	55 25 12.3	265 37 56.0
395 [1894 *BK*] .	Dec. 23	13.6	13.0	9.5	1894 Dec. 3.5	1900.0	136 43 41.3	20 40 2.1
396 [1894 *BL*] .	Dec. 36	14.0	13.2	9.7	1894 Dec. 2.5	1900.0	156 42 32.8	18 38 52.5
397 [1894 *BM*] .	—	—	12.6	9.4	1897 Mai 19.0	1900.0	256 29 27.3	137 39 6.6
398 [1894 *BN*] .	—	—	12.0	8.1	1895 Jan. 22.5	1895.0	187 25 12	0 0 0
399 [1895 *BP*] .	—	—	13.0	9.0	1895 März 1.5	1900.0	353 57 41.1	180 49 13.1
400 [1895 *BU*] .	Dec. 54	14.4	14.5	10.4	1895 März 18.5	1900.0	337 44 19.1	229 27 23.7

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
19 32 14.5	12 36 54.9	11 47 42.4	449.924	0.597911	J. Coniel.
27 27 9.7	8 3 15.9	2 35 55.7	857.595	0.411149	A. Berberich.
65 1 21.5	5 57 56.0	3 59 42.3	778.243	0.439261	A. Antoniazzi.
105 10 47.4	5 59 58.7	8 40 19.5	1072.3644	0.3464495	A. Berberich.
185 46 27.4	12 43 30.8	8 19 48.5	756.0685	0.4476303	A. Berberich.
348 3 39.6	10 37 54.0	3 50 30.6	636.512	0.497467	A. Berberich.
83 2 9.0	2 56 43.5	5 26 45.6	1073.7826	0.3460601	A. Berberich.
229 58 56.3	7 48 15.5	11 8 13.1	663.984	0.485231	A. Berberich.
94 29 7.0	12 43 39.3	5 31 35.9	823.335	0.422953	A. Berberich.
290 59 45.3	7 51 37.9	5 10 55.7	1001.5535	0.366222	A. Berberich.
284 9 4.9	7 23 4.3	3 26 24.1	787.2160	0.4359418	H. Mader.
328 20 14.7	23 40 37.4	15 38 18.4	636.9764	0.4972555	A. Berberich.
4 44 39.4	15 26 40.0	8 6 35.0	644.264	0.493962	A. Berberich.
219 36 41.2	8 57 57.6	4 27 27.6	765.4424	0.444063	A. Berberich.
337 40 38.6	15 54 13.8	5 22 42.4	640.3166	0.4957411	Brandicourt.
302 12 53.2	5 25 18.9	9 51 15.3	1024.4027	0.3596906	A. Berberich.
210 36 8.4	6 39 41.6	4 26 14.5	804.920	0.429503	J. Coniel.
233 13 27.4	6 58 38.4	7 31 38.0	767.4448	0.443306	A. Berberich.
172 44 58.5	1 36 33.6	11 3 4.0	641.338	0.495280	J. Coniel.
95 15 45.3	6 10 28.7	6 37 54.9	809.990	0.427685	A. Capon.
125 20 36.1	12 36 7.5	6 55 54.3	620.547	0.504821	A. Berberich.
315 46 50.2	7 25 38.7	9 47 29.6	646.193	0.493096	A. Berberich.
93 14 15.7	2 38 56.6	9 51 39.5	643.337	0.494378	A. Berberich.
48 13 27.0	5 38 54.5	8 22 34.3	820.6462	0.423900	F. Kromm.
344 55 49.1	13 42 55.9	7 30 32.1	740.0320	0.453837	G. Witt.
167 14 45.5	20 16 45.9	9 41 10.7	719.6740	0.4619139	A. Berberich.
128 37 56.0	17 57 55.2	13 47 16.3	782.6076	0.4376414	J. H. Ogburn.
355 30 6.8	6 31 48.5	3 42 53.8	684.531	0.476409	A. Berberich.
282 37 51.2	8 7 7.3	3 53 14.7	842.4772	0.416299	D. Peyra.
305 27 32.2	12 8 44.4	7 28 37.3	818.334	0.424717	J. Coniel.
212 40 47.3	23 3 3.0	17 57 30.4	1003.286	0.365721	J. Coniel.
212 8 0.9	16 11 33.5	11 12 8.1	683.267	0.476944	A. Berberich.
215 1 40.2	14 52 29.3	19 13 37.7	768.335	0.442971	A. Berberich.
68 13 29.4	6 15 38.1	13 11 32.3	771.095	0.441933	J. Coniel.
259 52 27.5	3 31 42.3	7 16 9.6	764.391	0.444461	A. Capon.
251 17 22.6	2 37 51.3	10 18 30.4	782.986	0.437501	J. Coniel.
228 28 19.3	12 42 41.5	13 52 13.4	830.8194	0.420334	H. Mader.
284 14 19	20 9 57	0 0 0	684.68	0.47634	A. Charlois.
347 22 58.7	13 8 20.1	3 51 5.6	664.6683	0.484935	A. Berberich.
328 41 7.6	10 36 51.4	5 15 50.9	641.871	0.495039	A. Berberich.

Nr. und Name	Opposition 1899	Gr.	m_0	g	Epoche und Osculation	Mittl. Aequ.	M	ω
401 Ottilia. . . .	Dec. 31	12.8	12.6	8.2	1895 März 31.5	1900.0	321° 21′ 53″.8	181° 20′ 19″.6
402 [1895 *BW*].	März 3	10.9	10.7	7.7	1895 März 27.5	1895.0	28 44 8.7	12 26 1.5
403 [1895 *BX*] .	Febr. 25	12.0	12.0	8.5	1895 Juni 12.5	1900.0	103 28 22.1	246 5 56.1
404 [1895 *BY*] .	Mai 19	11.8	13.0	10.0	1895 Juni 21.5	1900.0	37 0 57.4	118 56 21.8
405 [1895 *BZ*] .	Juli 6	10.5	11.0	8.0	1895 Juli 27.0	1895.0	73 36 35.0	305 12 42.1
406 [1895 *CB*] .	Mai 9	13.9	13.5	9.8	1895 Aug. 23.5	1900.0	350 1 59.3	33 31 31.4
407 [1895 *CC*] .	Sept. 15	11.5	11.9	8.7	1895 Nov. 10.5	1900.0	17 44 21.6	79 37 50.6
408 [1895 *CD*] .	Juni 7	13.9	13.4	9.2	1895 Dec. 9.5	1900.0	2 49 29.1	102 21 36.7
409 [1895 *CE*] .	Nov. 19	11.0	10.7	7.6	1895 Dec. 10.0	1900.0	199 58 3.3	352 14 27.9
410 [1896 *CH*] .	Nov. 23	12.9	11.9	8.3	1896 Jan. 8.5	1900.0	245 34 9.5	143 52 48.7
411 [1896 *CJ*] .	Nov. 17	12.4	12.5	8.5	1896 Jan. 8.5	1900.0	158 42 57.5	194 5 56.8
412 Elisabetha .	Nov. 14	12.2	12.1	8.5	1898 Aug. 22.0	1900.0	119 48 29.4	88 10 38.9
413 Edburga . .	Dec. 19	11.7	12.2	9.2	1896 Jan. 10.5	1900.0	72 21 21.0	248 52 28.4
414 [1896 *CN*] .	Juli 18	13.5	13.4	8.6	1896 Jan. 17.5	1900.0	59 10 8.5	301 48 6.7
415 [1896 *CO*] .	Nov. 19	10.6	12.4	9.1	1896 Febr. 11.5	1896.0	45 3 44.3	306 54 40.8
416 Vaticana . .	—	—	11.5	8.0	1898 Dec. 20.0	1900.0	178 10 38.2	195 31 34.8
417 [1896 *CT*] .	—	—	12.7	9.2	1896 Juni 16.5	1900.0	34 8 42.8	350 13 43.0
418 [1896 *CV*] .	April 19	13.1	12.6	9.5	1896 Sept. 3.5	1900.0	338 15 57.5	123 15 21.6
419 [1896 *CW*] .	Febr. 10	11.6	11.1	8.0	1896 Sept. 13.5	1900.0	52 8 16.1	39 19 31.5
420 Bertholda . .	Jan. 27	12.1	12.3	7.7	1899 Jan. 29.0	1900.0	35 57 53.2	203 6 4.9
421 Zähringia . .	Mai 13	15.5	14.2	11.2	1896 Sept. 3.5	1900.0	333 0 19.7	205 13 58.6
422 Berolina . .	Juli 14	12.3	13.4	11.2	1896 Dec. 4.5	1900.0	42 36 47.9	334 7 22.3
423 [1896 *DB*] .	April 21	11.1	11.2	7.2	1896 Dec. 8.5	1900.0	139 48 42.5	203 33 11.1
424 [1896 *DF*] .	Juli 14	12.8	12.8	9.3	1897 Febr. 28.0	1900.0	46 56 47.2	330 21 46.1
425 [1896 *DC*] .	Aug. 1	12.5	13.1	9.4	1897 Jan. 20.5	1900.0	297 57 5.8	117 50 18.3
426 [1897 *DH*] .	—	—	11.5	7.8	1897 Sept. 30.0	1900.0	172 10 55.2	221 45 54.7
427 [1897 *DJ*] .	—	—	13.1	9.3	1897 Sept. 2.5	1897.0	25 59 19.0	5 56 12.6
428 Monachia . .	—	—	13.7	11.3	1897 Nov. 18.5	1897.0	22 59 39.1	13 17 1.3
429 [1897 *DL*] .	—	—	—	—	1897 Nov. 29.5	1897.0	193 25 52	0 0 0
430 [1897 *DM*].	—	—	13.2	9.6	1898 Jan. 21.5	1898.0	15 12 12.0	174 56 47.0
431 [1897 *DN*] .	—	—	12.6	8.5	1898 Jan. 18.5	1898.0	97 29 58.4	209 20 51.4
432 [1897 *DO*] .	—	—	11.3	8.7	1898 Jan. 22.5	1898.0	184 17 44.4	174 9 13.2
433 Eros	—	—	9.2	10.1	1898 Aug. 31.5	1898.0	222 16 27.1	177 13 32.6
434 Hungaria . .	—	—	11.8	10.4	1898 Oct. 10.5	1898.0	58 46 13.8	123 10 7.2
435 [1898 *DS*] .	—	—	12.1	9.3	1898 Oct. 10.5	1898.0	5 37 27.6	331 28 54.6
436 [1898 *DT*] .	—	—	—	—	1898 Sept. 25.5	1898.0	6 1 23	0 0 0
1894 *BD* .	—	—	13.3	11.3	1894 Nov. 1.5	1900.0	337 18 8.4	356 39 18.9

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
39 7 57.5	6 5 36.0	2 18 50.3	584.254	0.522270	A. Berberich.
129 29 53.1	11 50 10.2	6 24 49.0	868.759	0.407405	J. Coniel.
245 43 41.5	9 13 18.1	5 47 58.0	752.315	0.449071	A. Berberich.
92 53 26.2	13 59 41.2	11 39 59.3	854.715	0.412123	A. Berberich.
255 55 27.9	11 48 18.6	14 32 24.7	856.814	0.411412	J. Coniel.
317 15 49.5	4 12 31.9	10 31 6.1	714.568	0.463975	A. Capon.
295 9 45.6	7 32 25.8	3 55 13.1	834.430	0.419078	A. Berberich.
299 27 0.9	9 6 23.7	7 56 28.1	626.693	0.501968	A. Berberich.
242 35 47.4	11 14 22.3	4 0 19.8	858.6750	0.4107854	F. Kromm.
96 24 55.9	9 32 56.1	12 30 4.9	746.590	0.451283	A. Berberich.
108 7 51.8	19 26 26.9	13 36 34.4	720.585	0.461548	A. Berberich.
106 44 29.0	13 47 24.4	2 16 47.5	772.7009	0.4413301	A. Berberich.
105 4 28.9	18 52 26.6	19 43 23.0	856.555	0.411501	A. Berberich.
113 29 2.5	9 39 7.4	5 18 49.6	537.766	0.546275	A. Berberich.
126 0 42.0	7 1 19.2	15 52 2.9	798.751	0.431730	A. Berberich.
58 32 44.4	12 55 44.5	12 31 57.2	761.4665	0.4455706	G. Boccardi.
199 52 3.9	6 31 48.8	7 26 10.2	756.022	0.447648	A. Berberich.
249 7 48.6	6 48 17.3	6 54 42.8	847.728	0.414500	A. Berberich.
230 14 9.0	3 57 30.9	14 46 53.5	850.375	0.413597	A. Berberich.
247 3 22.8	6 39 49.3	2 43 20.0	563.5308	0.532726	A. Berberich.
187 59 15.4	7 51 37.5	16 53 29.6	876.838	0.404725	A. Berberich.
8 48 49.0	4 58 45.1	12 11 29.9	1070.3195	0.3469954	G. Witt.
70 15 47.2	11 16 25.2	2 32 37.6	662.983	0.485670	A. Berberich.
99 33 18.3	8 11 56.5	6 11 49.6	767.6789	0.4432180	J. Stein S. J.
61 14 34.5	4 2 18.3	4 18 21.8	719.978	0.461792	A. Pourteau.
311 58 22.1	19 37 39.4	5 53 54.4	722.4562	0.4607967	A. Pourteau.
298 45 30.8	5 8 11.1	6 53 23.4	692.493	0.473061	J. Coniel.
17 23 15.4	6 14 11.3	10 14 53.4	1009.24	0.364014	Dr. Villiger.
223 9 55	13 47 5	0 0 0	769.73	0.45245	A. Charlois.
249 49 46.5	14 33 22.3	14 55 51.9	743.475	0.452494	A. Berberich.
117 6 55.6	1 49 1.4	9 43 27.5	642.4286	0.494788	K. Pokrowsky.
88 33 43.8	12 8 5.1	8 27 55.6	975.178	0.373948	A. Berberich.
303 27 48.3	10 48 33.5	12 52 48.3	2012.2186	0.164221	Prof. Millosevich.
174 37 56.0	22 33 38.1	4 14 43.5	1306.439	0.289278	A. Berberich.
22 59 3.9	1 50 51.4	8 56 11.8	923.828	0.389610	A. Berberich.
353 5 55	23 25 36	0 0 0	611.03	0.50930	A. Berberich.
72 35 44.3	3 27 48.4	8 33 50.4	1104.735	0.337832	A. Berberich.

Kreisbahnen.

Planet	m_0	Epoche	M	☊	i	μ	Log. a
			° ′ ″	° ′ ″	° ′ ″	″	
1892 *S*	13.0	1892 Dec. 17.5	77 35 48	358 7 42	3 27 18	835.8	0.41860
1893 *C*	13.5	1893 Jan. 23.5	167 48 0	321 27 42	3 33 48	1182.9	0.31802
1893 *D*	12.5	1893 Jan. 19.5	348 50 12	133 20 54	11 44 36	681.6	0.47764
1893 *U*	13.0	1893 April 10.5	93 23 42	88 59 54	7 49 6	944.3	0.38330
1893 *X*	13	1893 März 21.5	112 50 18	72 17 48	1 34 6	423.4	0.61550
1893 *Y*	13	1893 April 17.5	79 39 48	124 24 6	0 18 6	549.9	0.53980
1894 *AW*	12	1894 Febr. 3.5	62 6 12	21 39 36	4 33 42	996.0	0.36781
1896 *CU*	12.0	1896 Sept. 3.5	100 46 24	243 53 24	5 51 48	692.2	0.46320
1896 *DD*	13.0	1897 Jan. 12.5	8 18 14	104 44 20	2 52 28	731.4	0.45725
1896 *DE*	13.0	1897 Jan. 12.5	178 29 24	295 24 12	9 30 52	646.0	0.49320

Mittleres Aequinoctium des Jahresanfangs.

Nr. und Name	Tag der Opp.	Gr.	12ʰ Mittlere Zeit AR.	Decl.	Δα	Δδ	Letzte Beob-achtung
			h m	° ′	m	′	
233 Asterope . . .	Jan. 0	11.6	6 43.7	+12 57	1.0	0	1897
117 Lomia	0	11.4	6 45.9	+44 3	1.2	— 2	1892
283 Emma	1	11.9	6 50.8	+27 51	1.0	— 1	1897
232 Russia	2	13.4	6 56.1	+15 17	1.0	+ 3	1893
194 Prokne	3	11.5	6 56.4	+ 0 30	0.9	+ 4	1897
66 Maja	4	11.5	7 4.7	+27 57	1.0	+ 2	1893
281 Lucretia . . .	6	13.1	7 11.7	+32 30	1.3	+ 2	1890
101 Helena	7	11.2	7 18.2	+35 24	1.2	0	1897
179 Klytæmnestra	8	11.8	7 18.2	+15 30	0.9	0	1897
206 Hersilia	9	11.8	7 24.8	+18 30	1.0	+ 3	1895
338 Budrosa . . .	9	12.1	7 25.5	+21 48	1.0	0	1893
174 Phaedra . . .	10	12.3	7 26.8	+33 19	1.1	0	1897
225 Henrietta . . .	10	14.0	7 27.9	— 4 57	0.7	+ 1	1897
378 [1893 *AP*] . .	11	12.4	7 30.6	+12 19	1.0	+ 1	1897
152 Atala	14	11.9	7 44.7	+38 50	1.0	+ 3	1894
203 Pompeja . . .	16	11.6	7 55.7	+24 53	1.0	+ 2	1895
391 Ingeborg . . .	16	13.6	7 57.9	—16 28	1.1	+ 2	1896
144 Vibilia	17	10.9	7 58.8	+25 36	1.0	+ 4	1897
316 Goberta	19	12.7	8 8.7	+19 52	0.9	+ 3	1891
189 Phthia	20	11.7	8 13.9	+11 16	1.0	+ 4	1897
284 Amalia	21	14.1	8 14.1	+ 8 7	1.0	+ 2	1893
186 Celuta	22	12.2	8 22.8	+39 55	1.3	+ 1	1897
*288 Glauke	26	12.0	8 35.0	+19 24	0.9	+ 5	1897
75 Eurydike . . .	26	12.8	8 38.4	+24 26	1.0	+ 2	1895
420 Bertholda . . .	27	12.1	8 39.0	+ 9 45	0.8	+ 2	1897
367 [1893 *AA*] . .	28	11.9	8 47.9	+22 9	1.1	+ 6	1896
350 [1892 *U*] . . .	29	12.3	8 50.5	+41 1	1.0	+ 9	1894
* 11 Parthenope . .	29	9.8	8 51.4	+18 17	1.0	+ 6	1897
* 79 Eurynome . .	30	10.3	8 53.0	+ 9 34	1.0	+ 5	1895
314 Rosalia	31	14.7	8 56.3	+ 6 12	0.7	+ 5	1891
43 Ariadne	31	10.8	8 56.5	+12 36	1.1	+ 6	1897
255 Oppavia	Febr. 2	13.4	9 7.4	+31 2	1.1	+ 5	1890
201 Penelope . . .	3	12.7	9 11.7	+12 45	0.9	+ 5	1897
240 Vanadis . . .	5	12.2	9 18.9	+17 2	1.0	+ 5	1897
120 Lachesis . . .	6	11.7	9 20.8	+20 11	0.9	+ 2	1897
419 [1896 *CW*] . .	10	11.6	9 36.7	+ 7 52	0.9	+ 5	1897
204 Kallisto	12	12.1	9 43.2	+ 1 54	1.0	+ 5	1896
294 Felicia	13	15.5	9 49.2	+14 23	0.7	+ 5	1891
309 Fraternitas . .	14	13.3	9 53.6	+16 15	0.9	+ 4	1891
273 Atropos	14	12.1	9 55.4	+ 7 6	1.0	+13	1897

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Decl.	Δα	Δδ	Letzte Beobachtung
			h m	° '	m	'	
60 Echo	Febr. 15	10.2	9 56.0	+ 7 24	1.0	+ 7	1895
388 [1894 *BA*] . .	15	12.0	9 59.0	+17 16	0.9	+ 3	1894
348 May	16	12.5	9 58.9	+25 35	0.8	+ 5	1895
172 Baucis	18	11.0	10 8.8	+12 3	1.1	+ 2	1895
297 Caecilia	20	14.0	10 14.3	+11 19	0.8	+ 3	1891
* 61 Danaë	20	11.8	10 15.3	+12 10	0.9	+ 1	1897
9 Metis	21	8.7	10 18.3	+20 54	1.0	+ 6	1896
* 92 Undina	21	11.4	10 19.6	+21 21	0.8	+ 5	1897
370 [1893 *AC*] . .	23	13.3	10 28.8	— 0 33	1.0	+ 3	1895
47 Aglaja	24	11.8	10 30.9	+13 7	0.8	+ 4	1897
252 Clementina . .	24	13.4	10 31.2	— 1 22	0.6	+ 6	1892
403 [1895 *BX*] . .	25	12.0	10 35.0	— 7 5	0.8	+ 5	1897
230 Athamantis . .	28	10.6	10 47.2	— 8 29	0.9	+ 6	1897
77 Frigga	März 1	11.2	10 52.8	+ 8 42	0.9	+ 4	1897
250 Bettina	2	11.5	11 2.7	+21 6	0.8	0	1897
402 [1895 *BW*] . .	3	10.9	10 59.7	+18 19	0.8	+10	1896
380 [1894 *AR*] . .	5	13.2	11 3.2	+15 4	0.9	+ 2	1895
344 Desiderata . .	5	12.2	11 5.3	+34 44	1.1	+ 3	1896
100 Hekate	5	12.4	11 5.5	+11 28	0.7	+ 6	1896
131 Vala	5	12.0	11 6.7	+14 57	0.9	+ 5	1897
210 Isabella	5	12.7	11 7.0	+12 22	0.9	+ 4	1897
10 Hygiea	6	9.2	11 8.6	— 0 3	1.0	+ 7	1895
349 Dembowska .	6	10.2	11 10.6	+15 15	0.9	+ 4	1897
12 Victoria	8	10.3	11 14.0	— 8 14	0.9	+ 6	1896
159 Aemilia	8	12.0	11 17.1	+ 9 29	0.7	0	1897
320 Katharina . . .	8	14.8	11 17.5	— 6 24	0.7	+ 6	1891
300 Geraldina . . .	10	14.1	11 27.1	+ 4 29	0.7	+ 4	1892
386 [1894 *AY*] . .	12	11.2	11 29.2	+ 5 35	0.7	+ 9	1898
224 Oceana	12	11.7	11 31.4	+ 3 20	0.9	+ 4	1896
*122 Gerda	14	11.3	11 40.6	+ 1 55	0.7	+ 5	1897
* 65 Cybele	16	10.9	11 46.3	+ 3 3	0.7	+ 5	1898
*106 Dione	16	12.1	11 46.4	+ 7 57	0.7	+ 4	1898
112 Iphigenia . . .	16	12.2	11 47.5	— 1 6	0.9	+ 5	1895
115 Thyra	17	11.1	11 52.7	—14 53	0.6	+ 4	1897
376 [1893 *AM*] . .	18	11.3	11 51.8	— 8 28	1.0	+ 4	1897
293 Brasilia	19	12.3	11 56.8	+26 20	1.0	+ 2	1890
160 Una	22	12.0	12 6.8	+ 0 18	0.9	+ 6	1898
*270 Anahita	22	11.7	12 7.0	— 4 51	1.0	+ 7	1897
340 Eduarda . . .	24	13.1	12 14.4	+ 1 42	0.9	+ 4	1892
357 [1893 *J*] . . .	24	12.5	12 14.5	+13 16	0.7	+ 7	1893

Nr. und Name	Tag der Opp.	Gr.	12ʰ Mittlere Zeit AR.	Decl.	Δα	Δδ	Letzte Beobachtung
			h m	° ′	m	′	
83 Beatrix	März 25	10.8	12 17.4	+ 2 3	1.0	+ 3	1895
346 Hermentaria .	26	12.0	12 24.6	+11 25	0.8	+ 5	1896
385 Ilmatar	27	9.6	12 27.3	−13 11	1.0	0	1897
222 Lucia	28	12.5	12 29.6	+ 1 28	0.8	+ 5	1895
209 Dido	28	11.4	12 30.9	− 4 43	0.8	+ 3	1896
* 6 Hebe	28	9.5	12 31.1	+14 5	0.9	+ 8	1897
387 [1894 *AZ*] . .	30	9.7	12 36.4	+21 31	0.8	+ 8	1898
226 Weringia . . .	30	13.1	12 36.4	+16 47	0.8	+ 9	1896
229 Adelinda . . .	30	14.0	12 36.5	− 2 47	0.7	+ 4	1892
326 Tamara	31	10.9	12 39.2	+17 9	1.4	− 4	1897
312 Pierretta . . .	31	12.1	12 41.8	− 5 35	0.9	+ 2	1893
104 Klymene . . .	April 4	12.6	12 52.9	− 3 31	0.7	+ 4	1898
296 Phaëtusa . . .	4	14.6	12 54.7	− 2 54	1.0	+ 6	1890
20 Massalia . . .	4	9.1	12 56.0	− 6 15	0.9	+ 6	1897
*247 Eukrate	5	11.9	12 59.6	−20 10	1.1	0	1898
251 Sophia	6	13.8	13 2.1	+ 3 25	0.7	+ 6	1890
34 Circe	7	11.0	13 7.3	− 4 57	0.8	+ 8	1897
98 Ianthe	9	10.8	13 11.5	−21 45	1.1	− 1	1894
48 Doris	11	11.1	13 19.4	− 5 32	0.7	+ 6	1893
29 Amphitrite . .	12	9.4	13 21.7	−13 21	1.0	+ 4	1896
2 Pallas	14	7.5	13 30.5	+19 8	0.8	+14	1896
304 Olga	15	12.9	13 34.9	+ 8 45	0.9	+ 9	1896
298 Baptistina . .	15	13.3	13 35.2	−13 57	1.1	+ 2	1893
223 Rosa	15	13.3	13 36.5	− 8 50	0.7	+ 4	1893
22 Kalliope . . .	15	10.2	13 36.7	+ 5 11	0.8	+ 2	1896
254 Augusta . . .	16	12.8	13 38.6	− 9 58	1.0	+ 2	1892
335 Roberta	16	11.3	13 40.1	− 2 24	0.9	+ 7	1896
150 Nuwa	19	12.1	13 51.3	−11 19	0.8	+ 5	1893
418 [1896 *CV*] . .	19	13.1	13 52.2	−18 21	0.9	+ 6	1896
423 [1896 *DB*] . .	21	11.1	13 57.3	+ 0 3	0.8	+ 2	1897
276 Adelheid . . .	22	11.7	14 1.7	−11 48	0.7	+10	1898
140 Siwa	23	11.0	14 6.8	− 7 34	0.9	+ 5	1896
287 Nephthys . . .	24	10.7	14 6.4	+ 4 36	0.9	+ 6	1897
384 Burdigala . . .	25	12.5	14 11.5	−11 7	0.9	+ 3	1898
36 Atalante . . .	25	13.4	14 13.9	−31 49	1.0	+ 1	1896
366 [1893 *W*] . . .	25	12.3	14 14.6	−26 25	0.8	+ 1	1898
216 Kleopatra . . .	26	11.3	14 15.2	−13 30	0.9	− 7	1896
*118 Peitho	26	11.4	14 16.7	−11 1	1.0	+ 2	1897
97 Klotho	27	11.6	14 20.5	+ 0 33	0.8	+ 5	1894
1 Ceres	27	7.2	14 21.3	− 1 8	0.9	+ 1	1898

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Decl.	Δα	Δδ	Letzte Beobachtung
			h m	° ′	m	′	
70 Panopaea . . .	April 27	10.6	14 22.5	—10 8	1.0	0	1895
167 Urda	28	13.0	14 24.3	—11 7	0.8	+4	1895
269 Justitia	30	11.8	14 30.0	— 5 38	0.8	+6	1895
50 Virginia . . .	Mai 1	12.8	14 37.7	—12 15	0.8	+5	1896
244 Sita	2	14.4	14 39.2	—14 21	1.0	+6	1890
285 Regina	5	14.8	14 50.0	—42 31	1.0	+3	1889
286 Iclea	5	13.3	14 51.5	+ 8 57	0.7	+4	1898
263 Dresda	8	13.6	15 1.0	—16 47	0.8	+4	1898
220 Stephania . .	8	13.5	15 2.1	—23 59	1.5	+8	1881
360 [1893 *N*] . . .	8	12.7	15 2.7	— 0 19	0.8	+3	1893
406 [1895 *CB*] . .	9	13.9	15 8.6	—23 57	0.7	+4	1895
249 Ilse	10	14.5	15 10.9	—33 21	1.1	+2	1896
390 [1894 *BC*] . .	12	13.3	15 19.8	—37 10	1.0	+4	1897
321 Florentina . .	13	13.4	15 19.7	—19 13	0.9	+2	1898
49 Pales	13	12.0	15 20.4	—22 7	0.8	+3	1895
421 Zähringia . . .	13	15.5	15 23.3	—10 23	0.9	+5	1896
59 Elpis	14	11.4	15 25.1	— 6 55	0.8	+4	1894
* 17 Thetis	15	9.3	15 31.4	— 8 52	0.9	+2	1898
322 Phaeo	16	12.9	15 32.0	—22 50	0.9	+5	1895
*168 Sibylla	16	11.9	15 33.3	—16 18	0.7	+3	1898
94 Aurora	16	11.7	15 33.3	—34 7	0.8	+1	1895
325 Heidelberga .	18	12.7	15 40.6	—31 13	0.8	+2	1898
261 Prymno	18	11.7	15 43.0	—15 29	1.0	+2	1897
213 Lilaea	18	11.0	15 43.8	— 8 59	0.9	+1	1898
274 Philagoria . .	19	12.9	15 47.0	—16 27	0.9	—1	1893
404 [1895 *BY*] . .	19	11.8	15 47.9	— 3 41	1.0	—5	1895
*175 Andromache .	22	11.9	15 58.7	—23 26	0.9	+2	1897
195 Eurykleia . . .	23	12.4	16 1.2	—29 41	0.9	+1	1896
358 [1893 *K*] . . .	25	13.2	16 11.5	—16 13	0.8	+2	1898
221 Eos	26	11.1	16 11.7	— 4 45	0.8	+1	1898
258 Tyche	27	11.4	16 15.8	— 7 28	0.9	+7	1898
*178 Belisana . . .	27	11.7	16 17.2	—22 15	1.0	+1	1894
356 [1893 *G*] . . .	27	13.1	16 17.8	—32 38	1.0	+1	1898
353 [1893 *F*] . . .	28	15.7	16 20.5	—16 48	0.9	+1	1893
202 Chryseïs . . .	31	10.9	16 35.8	— 9 54	0.8	0	1895
217 Eudora	Juni 1	11.9	16 39.8	— 3 48	0.8	+3	1890
389 [1894 *BB*] . .	2	10.9	16 41.6	—29 7	1.0	+5	1898
173 Ino	3	11.4	16 46.1	— 1 14	0.9	0	1895
177 Irma	6	13.0	16 58.6	—24 51	1.0	+8	1895
408 [1895 *CD*] . .	7	13.9	17 1.1	—31 27	0.9	+2	1896

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Decl.	Δα	Δδ	Letzte Beobachtung
			h m	° ′	m	′	
72 Feronia	Juni 8	10.6	17 7.1	—14 50	1.0	+4	1896
351 Yrsa	10	12.7	17 14.5	—18 10	0.9	—2	1894
246 Asporina . . .	10	11.1	17 17.4	+ 3 10	0.7	—1	1895
264 Libussa	13	12.4	17 28.7	—31 58	1.0	—2	1896
*241 Germania . . .	13	11.1	17 29.6	—24 35	0.9	+2	1898
3 Juno	14	9.8	17 30.2	— 4 24	0.9	+1	1897
306 Unitas	14	9.9	17 32.9	—11 17	1.0	—2	1898
215 Oenone	17	12.8	17 46.4	—25 49	0.9	0	1896
109 Felicitas . . .	17	13.1	17 46.6	—34 51	1.0	—1	1897
133 Cyrene	18	10.5	17 50.8	—31 58	0.9	—3	1896
*190 Ismene	21	12.7	18 1.7	—15 34	0.6	0	1897
342 Endymion . .	22	13.5	18 3.1	—16 29	0.9	+2	1896
80 Sappho	22	10.2	18 3.6	—10 36	1.0	+3	1896
87 Sylvia	22	11.6	18 7.6	—27 54	0.8	—3	1897
354 Eleonora . . .	22	10.4	18 8.6	— 2 16	0.9	—4	1898
85 Io	25	10.0	18 19.6	— 3 14	0.9	+2	1895
156 Xanthippe . .	26	12.2	18 20.3	—18 9	1.0	+1	1875
183 Istria	27	13.4	18 24.8	+ 5 8	0.9	—3	1897
143 Adria	30	12.2	18 36.6	—38 38	1.1	+3	1895
365 [1893 F] . . .	30	12.5	18 36.9	— 3 58	0.9	—1	1898
236 Honoria	30	11.0	18 38.6	—10 41	0.9	0	1890
405 [1895 *BZ*] . .	Juli 6	10.5	19 1.3	—12 31	1.0	+3	1897
328 Gudrun	6	12.9	19 3.2	—44 6	1.1	0	1892
239 Adrastea . . .	9	14.1	19 14.6	—13 18	0.8	—2	1890
192 Nausikaa . . .	10	8.8	19 18.7	—32 50	1.2	0	1895
* 82 Alkmene . . .	13	12.2	19 32.8	—25 54	0.9	—2	1898
*108 Hecuba	13	11.9	19 33.0	—27 20	0.9	—1	1898
422 Berolina . . .	14	12.3	19 36.7	—32 17	1.1	—2	1896
424 [1896 *DF*] . .	14	12.8	19 39.0	—24 21	0.9	—5	1897
*176 Iduna	15	12.0	19 39.9	+12 2	0.7	—1	1897
24 Themis	15	11.4	19 41.7	—22 30	0.8	—2	1898
151 Abundantia .	16	11.8	19 44.0	—31 33	1.0	—2	1898
207 Hedda	17	11.8	19 46.7	—28 11	1.1	—2	1898
414 [1896 *CN*] . .	18	13.5	19 51.0	—21 33	0.7	—4	1896
363 [1893 *S*] . . .	19	11.4	19 57.1	—28 24	0.9	—4	1898
44 Nysa	20	10.7	19 59.3	—18 49	1.0	—4	1896
111 Ate	20	11.8	20 2.3	—21 41	0.6	—1	1891
67 Asia.	23	9.9	20 11.7	— 7 37	1.0	—3	1895
107 Camilla	24	11.5	20 8.4	— 8 53	0.7	—3	1894
16 Psyche	25	9.3	20 18.3	—17 22	0.8	—4	1897

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Decl.	Δα	Δδ	Letzte Beob-achtung
			h m	° ′	m	′	
*170 Maria	Juli 25	12.0	20 20.7	−18 53	1.1	+2	1889
245 Vera	25	12.3	20 20.7	−26 33	0.9	−4	1896
334 Chicago	25	12.0	20 20.7	−18 15	0.7	−3	1898
347 Pariana	26	11.9	20 25.4	−30 21	1.0	−6	1898
27 Euterpe	27	10.5	20 28.4	−20 25	1.0	−3	1896
295 Theresia	28	13.7	20 32.4	−16 50	0.9	−2	1897
69 Hesperia	28	10.9	20 34.9	−10 9	0.8	−4	1892
90 Antiope	29	10.7	20 36.8	−21 42	0.8	−3	1898
136 Austria	31	10.7	20 44.7	− 2 24	0.9	−7	1898
425 [1896 *DC*]	Aug. 1	12.5	20 47.9	−23 41	0.9	−4	1897
211 Isolda	2	11.8	20 49.6	−13 36	0.7	−2	1895
51 Nemausa	2	10.1	20 50.5	− 5 37	0.9	−7	1896
68 Leto	6	9.5	21 8.0	−31 3	0.9	−3	1898
272 Antonia	7	13.7	21 8.9	−23 36	0.9	−3	1890
343 Ostara	8	13.2	21 14.9	−22 9	0.9	−4	1897
305 Gordonia	9	13.2	21 18.3	− 9 31	0.7	−4	1894
277 Elvira	12	12.7	21 29.7	−12 55	0.8	−4	1895
39 Laetitia	12	8.9	21 29.9	− 9 38	0.8	−8	1897
38 Leda	12	12.0	21 31.2	−10 10	1.3	−2	1897
63 Ausonia	13	9.3	21 31.2	−18 12	1.0	−1	1896
155 Scylla	13	14.1	21 32.6	−36 5	1.0	−3	1875
212 Medea	14	12.1	21 35.7	−13 32	1.1	−5	1896
32 Pomona	15	10.8	21 38.4	− 5 1	0.9	−5	1883
368 [1893 *AB*]	15	12.3	21 42.6	− 0 3	0.7	−4	1893
303 Josephina	18	12.0	21 51.5	−16 48	0.8	−2	1897
163 Erigone	19	12.6	21 54.1	−10 51	0.9	−7	1894
157 Dejanira	20	15.4	21 58.4	−31 23	0.8	−4	1875
337 Devosa	20	11.8	21 58.6	−19 13	1.1	−2	1897
265 Anna	20	13.6	22 0.2	−20 42	1.5	+6	1888
125 Liberatrix	21	10.9	22 0.5	− 9 21	0.7	−6	1893
355 [1893 *E*]	23	13.3	22 11.7	−14 0	0.9	−3	1893
* 76 Freia	25	12.2	22 19.6	− 7 49	0.7	−4	1896
55 Pandora	27	10.1	22 25.5	−18 6	0.9	−2	1893
13 Egeria	30	10.2	22 33.3	−35 18	1.4	−1	1895
268 Adorea	Sept. 4	13.2	22 52.0	− 9 34	0.7	−5	1897
292 Ludovica	6	12.3	23 2.5	−30 37	1.1	−1	1898
257 Silesia	8	12.5	23 8.9	−10 7	0.8	−4	1891
*121 Hermione	9	10.5	23 13.2	−17 25	0.7	−4	1897
227 Philosophia	9	13.2	23 13.7	− 0 39	0.8	−3	1897
238 Hypatia	11	11.3	23 18.1	+ 1 3	0.7	−7	1894

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Decl.	Δα	Δδ	Letzte Beobachtung
			h m	° ′	m	′	
142 Polana	Sept. 11	12.6	23 18.2	— 1 10	0.9	— 5	1896
91 Aegina	11	11.2	23 21.1	— 5 37	0.9	— 5	1897
103 Hera	13	9.8	23 25.8	— 9 11	0.8	— 7	1897
141 Lumen	13	10.1	23 27.0	+10 31	1.0	+ 2	1892
407 [1895 *CC*] . .	15	11.5	23 32.8	+ 9 7	0.9	— 3	1895
162 Laurentia . . .	15	13.1	23 34.0	— 9 38	0.8	— 4	1897
93 Minerva	17	10.5	23 39.7	— 5 16	0.9	— 2	1893
127 Johanna . . .	18	10.7	23 42.3	—10 42	0.9	— 3	1897
78 Diana	18	11.1	23 45.6	+ 4 26	0.9	— 3	1897
110 Lydia	20	10.0	23 50.8	—10 33	0.8	— 4	1893
129 Antigone . . .	21	10.5	23 55.8	—12 41	0.8	— 7	1894
74 Galatea	23	10.2	0 4.1	+ 2 57	0.6	— 8	1897
52 Europa	24	10.4	0 5.1	— 8 19	0.6	— 6	1896
260 Huberta	26	13.2	0 13.1	— 1 13	0.6	— 6	1889
8 Flora	29	7.9	0 21.3	—10 35	0.9	— 7	1896
* 56 Melete	Oct. 3	10.6	0 37.2	+ 4 58	0.8	—10	1895
372 [1893 *AH*] . .	3	9.6	0 38.4	+36 32	1.2	+ 3	1895
290 Bruna	3	14.6	0 39.1	+ 4 21	1.4	+ 3	1890
123 Brunhild . . .	5	11.3	0 46.3	+15 37	0.9	— 4	1897
41 Daphne	6	11.5	0 50.6	— 0 18	0.7	— 8	1894
331 Etheridgea . .	7	11.9	0 55.5	+ 4 20	0.8	— 3	1894
15 Eunomia . . .	8	7.5	0 55.4	+29 10	0.9	— 2	1894
128 Nemesis	12	9.9	1 11.9	— 2 10	0.9	— 4	1893
* 7 Iris	13	6.8	1 15.5	+18 45	0.9	— 7	1898
275 Sapientia . . .	14	12.6	1 18.5	+ 1 29	0.8	— 5	1897
95 Arethusa . . .	14	10.4	1 21.0	+22 48	0.7	— 8	1897
89 Julia	15	9.2	1 21.1	+39 26	1.2	— 2	1897
161 Athor	15	10.6	1 22.2	+ 9 51	1.1	— 1	1895
392 Wilhelmina . .	16	12.2	1 27.7	+13 10	0.7	—12	1894
165 Loreley	16	11.2	1 28.5	+26 39	0.8	— 4	1896
4 Vesta	18	6.9	1 32.3	— 2 56	1.0	— 4	1898
362 [1893 *R*] . . .	19	10.8	1 36.2	+ 9 40	1.0	— 2	1897
116 Sirona	22	11.1	1 47.0	+ 7 37	0.9	— 4	1897
*345 Tercidina . . .	25	11.0	1 59.5	+12 18	0.9	—11	1897
214 Aschera . . .	25	12.1	2 2.6	+17 6	0.9	— 4	1890
237 Coelestina . .	27	13.0	2 6.5	— 0 2	0.9	— 2	1897
35 Leukothea . .	28	13.2	2 15.4	+21 34	0.8	— 3	1896
336 Lacadiera . . .	31	12.2	2 21.7	+16 57	1.0	— 7	1895
62 Erato	Nov. 3	11.3	2 33.3	+11 16	1.0	— 3	1886
307 Nike	3	12.3	2 37.8	+ 6 4	0.9	— 2	1891

Nr. und Name	Tag der Opp.	Gr.	12^h Mittlere Zeit AR.	Decl.	Δα	Δδ	Letzte Beobachtung
			h m	° ′	m	′	
88 Thisbe	Nov. 5	10.6	2 41.5	+22 36	0.9	−5	1889
* 31 Euphrosyne .	5	9.9	2 43.2	+27 11	1.3	+6	1896
375 [1893 *AL*] . .	6	11.0	2 49.6	+39 18	1.0	−2	1896
373 [1893 *AJ*] . .	8	12.3	2 54.6	+34 5	1.1	+2	1895
*198 Ampella . . .	9	10.0	3 1.7	+29 0	1.0	−9	1897
182 Elsa	12	9.7	3 11.3	+14 2	0.9	−3	1895
278 Paulina	12	13.3	3 11.4	+15 9	0.9	−2	1890
301 Bavaria	12	12.4	3 14.6	+10 23	0.9	−3	1898
259 Aletheia . . .	14	12.7	3 18.0	+ 8 37	0.8	−1	1898
412 Elisabetha . .	14	12.2	3 20.6	+ 0 4	0.9	0	1896
45 Eugenia . . .	17	11.1	3 32.9	+ 9 1	0.9	−3	1898
411 [1896 *CJ*] . .	17	12.4	3 33.1	− 5 58	0.9	+1	1896
409 [1895 *CE*] . .	19	11.0	3 41.4	+21 10	1.0	−7	1898
415 [1896 *CO*] . .	19	10.6	3 42.3	+ 6 17	0.9	−1	1896
256 Walpurga . .	19	13.5	3 42.6	+ 4 6	0.8	−4	1892
146 Lucina	21	11.4	3 48.2	+10 53	1.0	0	1897
180 Garumna . . .	21	12.7	3 50.8	+21 37	1.0	−3	1892
410 [1896 *CH*] . .	23	12.9	3 55.9	+12 14	0.9	−1	1896
73 Klytia	24	11.8	4 0.6	+23 54	1.0	−2	1890
208 Lacrimosa . .	24	12.0	4 3.2	+23 3	0.9	−2	1891
*153 Hilda	24	13.2	4 4.0	+18 14	0.7	−3	1897
54 Alexandra . .	25	11.5	4 6.6	+37 28	1.1	−3	1894
332 Siri	30	12.6	4 28.9	+24 31	1.0	−1	1896
*313 Chaldaea . . .	Dec. 3	9.6	4 38.5	+ 1 24	1.0	−4	1898
158 Koronis	8	11.5	5 1.2	+23 22	0.9	−1	1894
393 [1894 *BG*] . .	8	12.0	5 2.1	+ 8 40	0.9	−3	1894
71 Niobe	8	11.0	5 3.8	+51 33	1.4	−2	1897
23 Thalia	9	9.2	5 8.0	+26 19	1.2	+5	1896
327 Columbia . . .	11	13.3	5 16.8	+33 49	1.1	−2	1892
324 Bamberga . .	12	8.6	5 19.0	+42 17	1.4	−4	1897
243 Ida	13	13.1	5 22.6	+24 49	1.0	−1	1894
*126 Velleda	14	11.5	5 29.4	+27 32	1.2	0	1895
242 Kriemhild . .	14	12.1	5 29.6	+ 8 14	0.9	−5	1897
* 42 Isis	15	10.9	5 30.3	+23 3	1.2	+2	1898
14 Irene	17	9.6	5 41.9	+23 6	1.1	+3	1897
371 [1893 *AD*] . .	18	12.1	5 44.7	+26 47	1.0	−2	1898
341 California . .	18	13.6	5 44.9	+31 35	1.2	+1	1892
413 Edburga . . .	19	11.7	5 52.2	+13 34	1.2	+9	1896
57 Mnemosyne . .	19	10.2	5 52.7	+ 2 4	0.8	−1	1897
147 Protogeneia .	21	12.5	5 57.2	+22 34	0.9	0	1898

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Decl.	Δα	Δδ	Letzte Beobachtung
			h m	° ′	m	′	
394 [1894 *BH*] . .	Dec. 23	13.4	6 6.5	+27 12	1.0	+ 2	1894
395 [1894 *BK*] . .	23	13.6	6 6.7	+22 23	1.0	− 1	1894
*184 Dejopeja . . .	28	12.4	6 31.1	+24 43	0.9	0	1897
25 Phocaea . . .	28	11.8	6 33.1	− 5 46	1.0	− 2	1898
119 Althaea	29	10.5	6 35.3	+14 16	1.0	− 4	1898
401 Ottilia	31	12.8	6 42.1	+30 34	0.9	+ 2	1895
185 Eunike	31	10.3	6 43.9	− 6 15	0.7	+ 5	1889
64 Angelina . . .	33	9.7	6 51.3	+24 2	1.0	+ 1	1896
5 Astraea	34	8.8	6 55.2	+16 43	1.0	+ 3	1897
361 [1893 *P*] . . .	34	12.2	6 57.8	+40 55	0.9	+ 1	1893
124 Alkeste	35	10.6	7 1.6	+18 10	1.0	+ 1	1897
396 [1894 *BL*] . .	36	14.0	7 4.0	+20 57	1.2	− 3	1894
102 Miriam	36	12.8	7 8.9	+14 49	1.0	+ 2	1894
228 Agathe	37	15.3	7 11.3	+24 23	1.2	+ 1	1895
197 Arete	41	13.3	7 24.6	+28 3	1.0	+ 4	1897
196 Philomela . . .	42	10.5	7 31.0	+28 15	0.9	+ 4	1897
279 Thule	42	14.1	7 32.7	+19 14	0.6	+ 1	1897
145 Adeona	42	10.5	7 34.8	+33 57	1.1	+ 7	1894
137 Meliboea . . .	43	12.8	7 34.2	+ 3 30	0.8	+ 2	1897
130 Elektra	44	10.5	7 40.3	+ 3 10	0.8	+ 7	1897
187 Lamberta . . .	44	11.4	7 40.7	+37 52	1.1	+ 5	1897
*148 Gallia	46	10.6	7 47.4	+ 0 56	0.9	+11	1898
369 Aëria	48	12.9	7 59.5	+28 21	1.0	+ 6	1895
*199 Byblis	49	13.1	8 4.5	+30 36	0.9	+ 5	1897
53 Kalypso	52	10.5	8 16.1	+16 7	1.0	+ 6	1897
400 [1895 *BU*] . .	54	14.4	8 22.1	+26 42	1.0	0	1895
166 Rhodope . . .	56	12.2	8 34.0	+18 40	0.9	+ 9	1897

Von den mit einem Sternchen (*) bezeichneten Planeten enthält das Jahrbuch (S. 412 – 451) ausführliche Ephemeriden.

Nicht aufgeführt sind in dieser Tabelle die Oppositionen der Planeten 323 und 1894 *BD*, sowie aller Planeten, für welche nur Kreisbahnen berechnet sind.

(288) GLAUKE 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Jan. 7	8 51 4.00	−41.56	+17 45 12.6	+4 37.8	0.208191	13 24
8	8 50 22.44	42.90	17 49 50.4	4 43.4	0.206256	13 20
9	8 49 39.54	44.20	17 54 33.8	4 48.7	0.204382	13 17
10	8 48 55.34	45.45	17 59 22.5	4 53.6	0.202571	13 13
11	8 48 9.89	−46.64	18 4 16.1	+4 58.3	0.200825	13 10
12	8 47 23.25	47.78	+18 9 14.4	5 2.5	0.199145	13 7
13	8 46 35.47	48.87	18 14 16.9	5 6.4	0.197532	13 4
14	8 45 46.60	49.88	18 19 23.3	5 10.0	0.195988	13 1
15	8 44 56.72	50.85	18 24 33.3	5 13.3	0.194515	12 59
16	8 44 5.87	−51.74	18 29 46.6	+5 16.1	0.193114	12 56
17	8 43 14.13	52.57	+18 35 2.7	5 18.6	0.191785	12 54
18	8 42 21.56	53.34	18 40 21.3	5 20.7	0.190531	12 52
19	8 41 28.22	54.04	18 45 42.0	5 22.5	0.189351	12 50
20	8 40 34.18	54.66	18 51 4.5	5 23.9	0.188247	12 48
21	8 39 39.52	−55.23	18 56 28.4	+5 24.9	0.187220	12 46
22	8 38 44.29	55.71	+19 1 53.3	5 25.7	0.186270	12 44
23	8 37 48.58	56.13	19 7 19.0	5 25.9	0.185399	12 43
24	8 36 52.45	56.48	19 12 44.9	5 25.9	0.184606	12 41
25	8 35 55.97	56.75	19 18 10.8	5 25.5	0.183892	12 40
☍ 26	8 34 59.22	−56.94	19 23 36.3	+5 24.7	0.183258	12 39
27	8 34 2.28	57.07	+19 29 1.0	5 23.6	0.182704	12 38
28	8 33 5.21	57.11	19 34 24.6	5 22.2	0.182230	12 37
29	8 32 8.10	57.08	19 39 46.8	5 20.4	0.181837	12 36
30	8 31 11.02	56.98	19 45 7.2	5 18.2	0.181524	12 36
31	8 30 14.04	−56.79	19 50 25.4	+5 15.8	0.181291	12 35
Febr. 1	8 29 17.25	56.52	+19 55 41.2	5 13.0	0.181139	12 35
2	8 28 20.73	56.18	20 0 54.2	5 9.9	0.181067	12 35
3	8 27 24.55	55.76	20 6 4.1	5 6.4	0.181075	12 35
4	8 26 28.79	55.26	20 11 10.5	5 2.8	0.181162	12 35
5	8 25 33.53	−54.67	20 16 13.3	+4 58.7	0.181328	12 35
6	8 24 38.86	54.02	+20 21 12.0	4 54.4	0.181572	12 36
7	8 23 44.84	53.28	20 26 6.4	4 49.8	0.181894	12 36
8	8 22 51.56	52.47	20 30 56.2	4 44.9	0.182293	12 37
9	8 21 59.09	51.59	20 35 41.1	4 39.8	0.182768	12 38
10	8 21 7.50	−50.61	20 40 20.9	+4 34.4	0.183317	12 39
11	8 20 16.89	49.58	+20 44 55.3	4 28.8	0.183940	12 40
12	8 19 27.31		20 49 24.1		0.184636	12 41

Opp. in AR. Jan. 26 Gröſse = 12.0

R. Luther.

(11) PARTHENOPE 1899.

12^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Jan. 11	9 7 58.24	−47.90	+16 36 53.3	+5 9.3	0.245224	14 36
12	9 7 10.34	49.06	16 42 2.6	5 13.9	0.243970	14 33
13	9 6 21.28	50.17	16 47 16.5	5 18.2	0.242780	14 30
14	9 5 31.11	51.23	16 52 34.7	5 22.1	0.241655	14 28
15	9 4 39.88	−52.23	16 57 56.8	+5 25.7	0.240595	14 26
16	9 3 47.65	53.16	+17 3 22.5	5 29.0	0.239602	14 24
17	9 2 54.49	54.05	17 8 51.5	5 31.8	0.238677	14 22
18	9 2 0.44	54.87	17 14 23.3	5 34.3	0.237821	14 21
19	9 1 5.57	55.63	17 19 57.6	5 36.5	0.237036	14 19
20	9 0 9.94	−56.33	17 25 34.1	+5 38.3	0.236321	14 17
21	8 59 13.61	56.97	+17 31 12.4	5 39.8	0.235678	14 16
22	8 58 16.64	57.53	17 36 52.2	5 40.8	0.235107	14 15
23	8 57 19.11	58.04	17 42 33.0	5 41.5	0.234610	14 14
24	8 56 21.07	58.48	17 48 14.5	5 41.9	0.234187	14 13
25	8 55 22.59	−58.86	17 53 56.4	+5 41.9	0.233837	14 13
26	8 54 23.73	59.16	+17 59 38.3	5 41.6	0.233562	14 12
27	8 53 24.57	59.39	18 5 19.9	5 40.8	0.233361	14 12
28	8 52 25.18	59.56	18 11 0.7	5 39.8	0.233236	14 11
☍ 29	8 51 25.62	59.65	18 16 40.5	5 38.4	0.233185	14 11
30	8 50 25.97	−59.68	18 22 18.9	+5 36.7	0.233210	14 11
31	8 49 26.29	59.64	+18 27 55.6	5 34.6	0.233310	14 12
Febr. 1	8 48 26.65	59.52	18 33 30.2	5 32.2	0.233486	14 12
2	8 47 27.13	59.33	18 39 2.4	5 29.5	0.233736	14 12
3	8 46 27.80	59.08	18 44 31.9	5 26.4	0.234061	14 13
4	8 45 28.72	−58.74	18 49 58.3	+5 23.1	0.234461	14 14
5	8 44 29.98	58.33	+18 55 21.4	5 19.5	0.234935	14 15
6	8 43 31.65	57.86	19 0 40.9	5 15.4	0.235482	14 16
7	8 42 33.79	57.31	19 5 56.3	5 11.2	0.236102	14 17
8	8 41 36.48	56.68	19 11 7.5	5 6.7	0.236795	14 18
9	8 40 39.80	−56.00	19 16 14.2	+5 1.9	0.237559	14 20
10	8 39 43.80	55.23	+19 21 16.1	4 56.9	0.238393	14 22
11	8 38 48.57	54.41	19 26 13.0	4 51.5	0.239297	14 23
12	8 37 54.16	53.52	19 31 4.5	4 46.1	0.240269	14 25
13	8 37 0.64	52.56	19 35 50.6	4 40.3	0.241308	14 27
14	8 36 8.08	−51.55	19 40 30.9	+4 34.5	0.242412	14 30
15	8 35 16.53	50.48	+19 45 5.4	4 28.4	0.243581	14 32
16	8 34 26.05		19 49 33.8		0.244813	14 35

Opp. in AR. Jan. 29 Gröfse = 9.8

R. Luther.

(79) EURYNOME 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Jan. 14	9 8 18.57	−52.11	+ 8 28 15.7	+3 4.1	0.134719	11 19
15	9 7 26.46	53.19	8 31 19.8	3 14.0	0.133901	11 18
16	9 6 33.27	54.20	8 34 33.8	3 23.4	0.133160	11 16
17	9 5 39.07	55.12	8 37 57.2	3 32.7	0.132499	11 15
18	9 4 43.95	55.98	8 41 29.9	+3 41.6	0.131918	11 14
19	9 3 47.97	56.77	+ 8 45 11.5	3 50.1	0.131419	11 14
20	9 2 51.20	57.48	8 49 1.6	3 58.4	0.131004	11 13
21	9 1 53.72	58.12	8 53 0.0	4 6.4	0.130673	11 12
22	9 0 55.60	58.66	8 57 6.4	4 14.0	0.130427	11 12
23	8 59 56.94	−59.12	9 1 20.4	+4 21.2	0.130266	11 12
24	8 58 57.82	59.52	+ 9 5 41.6	4 28.2	0.130191	11 12
25	8 57 58.30	59.82	9 10 9.8	4 34.7	0.130202	11 12
26	8 56 58.48	60.04	9 14 44.5	4 40.8	0.130300	11 12
27	8 55 58.44	60.19	9 19 25.3	4 46.5	0.130485	11 12
28	8 54 58.25	−60.26	9 24 11.8	+4 52.0	0.130757	11 13
29	8 53 57.99	60.24	+ 9 29 3.8	4 57.2	0.131118	11 13
☍ 30	8 52 57.75	60.14	9 34 1.0	5 1.8	0.131567	11 14
31	8 51 57.61	59.96	9 39 2.8	5 6.0	0.132103	11 15
Febr. 1	8 50 57.65	59.68	9 44 8.8	5 9.8	0.132725	11 16
2	8 49 57.97	−59.33	9 49 18.6	+5 13.3	0.133435	11 17
3	8 48 58.64	58.90	+ 9 54 31.9	5 16.4	0.134232	11 18
4	8 47 59.74	58.39	9 59 48.3	5 18.9	0.135114	11 20
5	8 47 1.35	57.79	10 5 7.2	5 21.2	0.136082	11 21
6	8 46 3.56	57.12	10 10 28.4	5 23.1	0.137135	11 23
7	8 45 6.44	−56.36	10 15 51.5	+5 24.4	0.138271	11 24
8	8 44 10.08	55.54	+10 21 15.9	5 25.4	0.139489	11 26
9	8 43 14.54	54.60	10 26 41.3	5 25.8	0.140790	11 28
10	8 42 19.94	53.62	10 32 7.1	5 26.0	0.142173	11 31
11	8 41 26.32	52.57	10 37 33.1	5 25.8	0.143635	11 33
12	8 40 33.75	−51.45	10 42 58.9	+5 25.1	0.145174	11 35
13	8 39 42.30	50.24	+10 48 24.0	5 24.2	0.146789	11 38
14	8 38 52.06	48.99	10 53 48.2	5 22.8	0.148478	11 41
15	8 38 3.07	47.70	10 59 11.0	5 21.2	0.150239	11 44
16	8 37 15.37	46.35	11 4 32.2	5 19.1	0.152071	11 47
17	8 36 29.02	−44.93	11 9 51.3	+5 16.6	0.153971	11 50
18	8 35 44.09	43.47	+11 15 7.9	5 13.6	0.155938	11 53
19	8 35 0.62		11 20 21.5		0.157970	11 56

Opp. in AR. Jan. 30 Gröfse = 10.3

P. Neugebauer.

(61) DANAË 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Febr. 2	10 31 5.30	−48.17	+11 47 54.9	+1 5.7	0.401011	20 53
3	10 30 17.13	48.92	11 49 0.6	1 7.7	0.400132	20 50
4	10 29 28.21	49.64	11 50 8.3	1 9.5	0.399302	20 48
5	10 28 38.57	50.32	11 51 17.8	1 11.2	0.398521	20 46
6	10 27 48.25	−50.96	11 52 29.0	+1 12.7	0.397791	20 44
7	10 26 57.29	51.55	+11 53 41.7	1 13.9	0.397112	20 42
8	10 26 5.74	52.10	11 54 55.6	1 14.9	0.396485	20 40
9	10 25 13.64	52.61	11 56 10.5	1 15.7	0.395910	20 38
10	10 24 21.03	53.06	11 57 26.2	1 16.3	0.395388	20 37
11	10 23 27.97	−53.48	11 58 42.5	+1 16.7	0.394920	20 36
12	10 22 34.49	53.84	+11 59 59.2	1 16.9	0.394506	20 34
13	10 21 40.65	54.16	12 1 16.1	1 16.8	0.394147	20 33
14	10 20 46.49	54.42	12 2 32.9	1 16.6	0.393842	20 33
15	10 19 52.07	54.64	12 3 49.5	1 16.1	0.393592	20 32
16	10 18 57.43	−54.81	12 5 5.6	+1 15.5	0.393397	20 31
17	10 18 2.62	54.93	+12 6 21.1	1 14.8	0.393257	20 31
18	10 17 7.69	55.01	12 7 35.9	1 13.7	0.393173	20 31
19	10 16 12.68	55.03	12 8 49.6	1 12.5	0.393144	20 31
☍ 20	10 15 17.65	55.01	12 10 2.1	1 11.2	0.393171	20 31
21	10 14 22.64	−54.95	12 11 13.3	+1 9.6	0.393253	20 31
22	10 13 27.69	54.83	+12 12 22.9	1 8.0	0.393390	20 31
23	10 12 32.86	54.67	12 13 30.9	1 6.1	0.393582	20 32
24	10 11 38.19	54.47	12 14 37.0	1 4.1	0.393828	20 32
25	10 10 43.72	54.21	12 15 41.1	1 1.9	0.394129	20 33
26	10 9 49.51	−53.92	12 16 43.0	+0 59.7	0.394485	20 34
27	10 8 55.59	53.57	+12 17 42.7	0 57.2	0.394894	20 35
28	10 8 2.02	53.18	12 18 39.9	0 54.6	0.395357	20 37
März 1	10 7 8.84	52.76	12 19 34.5	0 51.8	0.395873	20 38
2	10 6 16.08	52.29	12 20 26.3	0 49.0	0.396441	20 40
3	10 5 23.79	−51.77	12 21 15.3	+0 46.0	0.397061	20 42
4	10 4 32.02	51.22	+12 22 1.3	0 42.9	0.397732	20 44
5	10 3 40.80	50.61	12 22 44.2	0 39.6	0.398454	20 46
6	10 2 50.19	49.97	12 23 23.8	0 36.3	0.399227	20 48
7	10 2 0.22	49.29	12 24 0.1	0 32.7	0.400050	20 50
8	10 1 10.93	−48.57	12 24 32.8	+0 29.2	0.400921	20 53
9	10 0 22.36	47.80	+12 25 2.0	0 25.4	0.401840	20 55
10	9 59 34.56		12 25 27.4		0.402806	20 58

Opp. in AR. Febr. 20 Gröfse = 11.8

R. Luther.

(92) UNDINA 1899.

12h Mittl. Zeit	AR. h m s	Diff. s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Aberr.-Zt. m s
Febr. 6	10 30 29.28	−40.47	+19 51 29.2	+6 16.4	0.405352	21 6
7	10 29 48.81	41.09	19 57 45.6	6 15.4	0.404738	21 4
8	10 29 7.72	41.68	20 4 1.0	6 14.0	0.404174	21 3
9	10 28 26.04	42.23	20 10 15.0	6 11.9	0.403661	21 1
10	10 27 43.81	−42.72	20 16 26.9	+6 9.6	0.403199	21 0
11	10 27 1.09	43.19	+20 22 36.5	6 6.9	0.402788	20 58
12	10 26 17.90	43.62	20 28 43.4	6 4.0	0.402429	20 57
13	10 25 34.28	43.99	20 34 47.4	6 0.5	0.402123	20 57
14	10 24 50.29	44.32	20 40 47.9	5 56.9	0.401868	20 56
15	10 24 5.97	−44.61	20 46 44.8	+5 53.1	0.401666	20 55
16	10 23 21.36	44.84	+20 52 37.9	5 48.9	0.401516	20 55
17	10 22 36.52	45.03	20 58 26.8	5 44.5	0.401419	20 55
18	10 21 51.49	45.19	21 4 11.3	5 39.9	0.401373	20 54
19	10 21 6.30	45.28	21 9 51.2	5 34.6	0.401380	20 55
20	10 20 21.02	−45.34	21 15 25.8	+5 29.0	0.401439	20 55
☍ 21	10 19 35.68	45.35	+21 20 54.8	5 23.2	0.401550	20 55
22	10 18 50.33	45.32	21 26 18.0	5 17.4	0.401714	20 55
23	10 18 5.01	45.25	21 31 35.4	5 11.3	0.401930	20 56
24	10 17 19.76	45.15	21 36 46.7	5 5.1	0.402197	20 57
25	10 16 34.61	−45.00	21 41 51.8	+4 58.8	0.402515	20 58
26	10 15 49.61	44.80	+21 46 50.6	4 52.2	0.402883	20 59
27	10 15 4.81	44.55	21 51 42.8	4 45.3	0.403301	21 0
28	10 14 20.26	44.26	21 56 28.1	4 38.2	0.403770	21 1
März 1	10 13 36.00	43.93	22 1 6.3	4 31.0	0.404289	21 3
2	10 12 52.07	−43.56	22 5 37.3	+4 23.6	0.404856	21 5
3	10 12 8.51	43.14	+22 10 0.9	4 15.8	0.405472	21 6
4	10 11 25.37	42.67	22 14 16.7	4 7.7	0.406135	21 8
5	10 10 42.70	42.19	22 18 24.4	3 59.8	0.406845	21 10
6	10 10 0.51	41.66	22 22 24.2	3 51.7	0.407603	21 13
7	10 9 18.85	−41.07	22 26 15.9	+3 43.7	0.408407	21 15
8	10 8 37.78	40.47	+22 29 59.6	3 35.4	0.409255	21 17
9	10 7 57.31	39.82	22 33 35.0	3 27.0	0.410146	21 20
10	10 7 17.49	39.11	22 37 2.0	3 18.3	0.411082	21 23
11	10 6 38.38	38.37	22 40 20.3	3 9.6	0.412061	21 26
12	10 6 0.01	−37.58	22 43 29.9	+3 0.8	0.413083	21 29
13	10 5 22.43	36.75	+22 46 30.7	2 51.8	0.414146	21 32
14	10 4 45.68		22 49 22.5		0.415249	21 35

Opp. in AR. Febr. 21 Größe = 11.4

F. Anderson.

(122) GERDA 1899.

12ʰ Mittl. Zeit	AR. h m s	Diff. s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Aberr.-Zt. m s
Febr. 25	11 51 41.46	−34.71	+0 34 52.4	+4 12.2	0.340138	18 9
26	11 51 6.75	35.45	0 39 4.6	4 17.2	0.339094	18 7
27	11 50 31.30	36.16	0 43 21.8	4 22.0	0.338102	18 4
28	11 49 55.14	36.84	0 47 43.8	4 26.4	0.337162	18 2
März 1	11 49 18.30	−37.46	0 52 10.2	+4 30.6	0.336274	18 0
2	11 48 40.84	38.02	+0 56 40.8	4 34.6	0.335440	17 58
3	11 48 2.82	38.56	1 1 15.4	4 38.4	0.334660	17 56
4	11 47 24.26	39.04	1 5 53.8	4 41.8	0.333935	17 54
5	11 46 45.22	39.50	1 10 35.6	4 44.8	0.333267	17 52
6	11 46 5.72	−39.91	1 15 20.4	+4 47.7	0.332655	17 51
7	11 45 25.81	40.30	+1 20 8.1	4 50.3	0.332099	17 49
8	11 44 45.51	40.62	1 24 58.4	4 52.5	0.331601	17 48
9	11 44 4.89	40.89	1 29 50.9	4 54.3	0.331162	17 47
10	11 43 24.00	41.13	1 34 45.2	4 55.9	0.330780	17 46
11	11 42 42.87	−41.31	1 39 41.1	+4 57.2	0.330458	17 45
12	11 42 1.56	41.44	+1 44 38.3	4 58.0	0.330196	17 45
13	11 41 20.12	41.52	1 49 36.3	4 58.6	0.329992	17 44
☍ 14	11 40 38.60	41.56	1 54 34.9	4 58.8	0.329847	17 44
15	11 39 57.04	41.54	1 59 33.7	4 58.8	0.329762	17 44
16	11 39 15.50	−41.48	2 4 32.5	+4 58.3	0.329736	17 44
17	11 38 34.02	41.38	+2 9 30.8	4 57.6	0.329770	17 44
18	11 37 52.64	41.22	2 14 28.4	4 56.6	0.329862	17 44
19	11 37 11.42	41.03	2 19 25.0	4 55.3	0.330014	17 44
20	11 36 30.39	40.79	2 24 20.3	4 53.6	0.330224	17 45
21	11 35 49.60	−40.50	2 29 13.9	+4 51.6	0.330493	17 46
22	11 35 9.10	40.18	+2 34 5.5	4 49.4	0.330819	17 46
23	11 34 28.92	39.80	2 38 54.9	4 46.9	0.331202	17 47
24	11 33 49.12	39.38	2 43 41.8	4 44.1	0.331642	17 48
25	11 33 9.74	38.94	2 48 25.9	4 41.0	0.332138	17 50
26	11 32 30.80	−38.44	2 53 6.9	+4 37.8	0.332690	17 51
27	11 31 52.36	37.90	+2 57 44.7	4 34.2	0.333296	17 52
28	11 31 14.46	37.34	3 2 18.9	4 30.4	0.333957	17 54
29	11 30 37.12	36.72	3 6 49.3	4 26.3	0.334672	17 56
30	11 30 0.40	36.09	3 11 15.6	4 22.0	0.335440	17 58
31	11 29 24.31	−35.41	3 15 37.6	+4 17.4	0.336260	18 0
April 1	11 28 48.90	34.69	+3 19 55.0	4 12.5	0.337132	18 2
2	11 28 14.21		3 24 7.5		0.338054	18 4

Opp. in AR. März 14 Gröſse = 11.3

P. Neugebauer.

(65) CYBELE 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Febr. 26	11 57 45.41	−33.74	+1 31 10.9	+4 41.3	0.384770	20 7
27	11 57 11.67	34.43	1 35 52.2	4 45.7	0.383660	20 4
28	11 56 37.24	35.10	1 40 37.9	4 49.8	0.382598	20 1
März 1	11 56 2.14	35.74	1 45 27.7	4 53.6	0.381584	19 59
2	11 55 26.40	−36.34	1 50 21.3	+4 57.2	0.380618	19 56
3	11 54 50.06	36.91	+1 55 18.5	5 0.5	0.379700	19 53
4	11 54 13.15	37.46	2 0 19.0	5 3.6	0.378832	19 51
5	11 53 35.69	37.95	2 5 22.6	5 6.4	0.378015	19 49
6	11 52 57.74	38.42	2 10 29.0	5 8.9	0.377250	19 47
7	11 52 19.32	−38.83	2 15 37.9	+5 11.1	0.376537	19 45
8	11 51 40.49	39.22	+2 20 49.0	5 13.1	0.375876	19 43
9	11 51 1.27	39.57	2 26 2.1	5 14.7	0.375269	19 41
10	11 50 21.70	39.86	2 31 16.8	5 16.0	0.374715	19 40
11	11 49 41.84	40.12	2 36 32.8	5 16.9	0.374215	19 38
12	11 49 1.72	−40.33	2 41 49.7	+5 17.6	0.373769	19 37
13	11 48 21.39	40.50	+2 47 7.3	5 18.0	0.373378	19 36
14	11 47 40.89	40.62	2 52 25.3	5 18.0	0.373042	19 35
15	11 47 0.27	40.71	2 57 43.3	5 17.9	0.372761	19 34
☍ 16	11 46 19.56	40.75	3 3 1.2	5 17.2	0.372535	19 34
17	11 45 38.81	−40.75	3 8 18.4	+5 16.4	0.372363	19 33
18	11 44 58.06	40.70	+3 13 34.8	5 15.3	0.372247	19 33
19	11 44 17.36	40.61	3 18 50.1	5 13.9	0.372186	19 33
20	11 43 36.75	40.48	3 24 4.0	5 12.2	0.372180	19 33
21	11 42 56.27	40.31	3 29 16.2	5 10.2	0.372228	19 33
22	11 42 15.96	−40.10	3 34 26.4	+5 8.0	0.372330	19 33
23	11 41 35.86	39.85	+3 39 34.4	5 5.4	0.372486	19 34
24	11 40 56.01	39.56	3 44 39.8	5 2.6	0.372696	19 34
25	11 40 16.45	39.22	3 49 42.4	4 59.6	0.372959	19 35
26	11 39 37.23	38.87	3 54 42.0	4 56.2	0.373274	19 36
27	11 38 58.36	−38.47	3 59 38.2	+4 52.7	0.373642	19 37
28	11 38 19.89	38.03	+4 4 30.9	4 48.8	0.374062	19 38
29	11 37 41.86	37.56	4 9 19.7	4 44.8	0.374533	19 39
30	11 37 4.30	37.05	4 14 4.5	4 40.6	0.375055	19 41
31	11 36 27.25	36.51	4 18 45.1	4 36.0	0.375627	19 42
April 1	11 35 50.74	−35.92	4 23 21.1	+4 31.2	0.376248	19 44
2	11 35 14.82	35.30	+4 27 52.3	4 26.3	0.376918	19 46
3	11 34 39.52		4 32 18.6		0.377638	19 48

Opp. in AR. März 16 Größe = 10.9

P. Neugebauer.

(106) DIONE 1899.

12ʰ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Febr. 24	12 0 17.94	−36.99	+6 26 24.8	+4 28.9	0.422446	21 57
25	11 59 40.95	37.68	6 30 53.7	4 30.8	0.421692	21 55
26	11 59 3.27	38.33	6 35 24.5	4 32.5	0.420983	21 52
27	11 58 24.94	38.95	6 39 57.0	4 34.0	0.420320	21 50
28	11 57 45.99	−39.54	6 44 31.0	+4 35.1	0.419703	21 48
März 1	11 57 6.45	40.09	+6 49 6.1	4 35.9	0.419133	21 47
2	11 56 26.36	40.62	6 53 42.0	4 36.5	0.418610	21 45
3	11 55 45.74	41.12	6 58 18.5	4 36.9	0.418136	21 44
4	11 55 4.62	41.57	7 2 55.4	4 36.9	0.417709	21 42
5	11 54 23.05	−41.99	7 7 32.3	+4 36.8	0.417331	21 41
6	11 53 41.06	42.37	+7 12 9.1	4 36.4	0.417003	21 40
7	11 52 58.69	42.71	7 16 45.5	4 35.6	0.416725	21 40
8	11 52 15.98	43.01	7 21 21.1	4 34.5	0.416497	21 39
9	11 51 32.97	43.28	7 25 55.6	4 33.2	0.416319	21 38
10	11 50 49.69	−43.51	7 30 28.8	+4 31.7	0.416193	21 38
11	11 50 6.18	43.68	+7 35 0.5	4 29.8	0.416117	21 38
12	11 49 22.50	43.81	7 39 30.3	4 27.6	0.416093	21 37
13	11 48 38.69	43.91	7 43 57.9	4 25.3	0.416119	21 37
14	11 47 54.78	43.96	7 48 23.2	4 22.5	0.416197	21 38
15	11 47 10.82	−43.98	7 52 45.7	+4 19.6	0.416325	21 38
☍ 16	11 46 26.84	43.94	+7 57 5.3	4 16.5	0.416505	21 39
17	11 45 42.90	43.88	8 1 21.8	4 13.0	0.416735	21 40
18	11 44 59.02	43.76	8 5 34.8	4 9.4	0.417015	21 40
19	11 44 15.26	43.62	8 9 44.2	4 5.5	0.417345	21 41
20	11 43 31.64	−43.43	8 13 49.7	+4 1.5	0.417726	21 42
21	11 42 48.21	43.20	+8 17 51.2	3 57.2	0.418156	21 43
22	11 42 5.01	42.94	8 21 48.4	3 52.6	0.418634	21 45
23	11 41 22.07	42.64	8 25 41.0	3 48.0	0.419161	21 47
24	11 40 39.43	42.30	8 29 29.0	3 43.1	0.419736	21 48
25	11 39 57.13	−41.94	8 33 12.1	+3 38.1	0.420359	21 50
26	11 39 15.19	41.53	+8 36 50.2	3 32.8	0.421029	21 52
27	11 38 33.66	41.09	8 40 23.0	3 27.4	0.421745	21 55
28	11 37 52.57	40.62	8 43 50.4	3 21.9	0.422507	21 57
29	11 37 11.95	40.11	8 47 12.3	3 16.1	0.423315	21 59
30	11 36 31.84	−39.57	8 50 28.4	+3 10.1	0.424167	22 2
31	11 35 52.27	38.99	+8 53 38.5	3 4.0	0.425063	22 5
April 1	11 35 13.28		8 56 42.5		0.426002	22 8

Opp. in AR. März 16   Größe = 12.1

P. Neugebauer

(270) ANAHITA 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
März 6	12h 22m 1s.29	−50s.03	−6° 24′ 42″.7	+4′ 48″.8	0.185552	12m 43s
7	12 21 11.26	51.16	6 19 53.9	4 58.9	0.183923	12 40
8	12 20 20.10	52.22	6 14 55.0	5 8.5	0.182362	12 38
9	12 19 27.88	53.22	6 9 46.5	5 17.8	0.180870	12 35
10	12 18 34.66	−54.14	6 4 28.7	+5 26.6	0.179448	12 32
11	12 17 40.52	55.01	−5 59 2.1	5 35.0	0.178097	12 30
12	12 16 45.51	55.82	5 53 27.1	5 42.9	0.176821	12 28
13	12 15 49.69	56.56	5 47 44.2	5 50.4	0.175620	12 26
14	12 14 53.13	57.22	5 41 53.8	5 57.8	0.174495	12 24
15	12 13 55.91	−57.81	5 35 56.0	+6 4.8	0.173447	12 22
16	12 12 58.10	58.34	−5 29 51.2	6 11.6	0.172478	12 20
17	12 11 59.76	58.79	5 23 39.6	6 17.9	0.171588	12 19
18	12 11 0.97	59.16	5 17 21.7	6 23.5	0.170778	12 18
19	12 10 1.81	59.47	5 10 58.2	6 28.8	0.170048	12 16
20	12 9 2.34	−59.70	5 4 29.4	+6 33.5	0.169400	12 15
21	12 8 2.64	59.86	−4 57 55.9	6 37.8	0.168833	12 14
☍ 22	12 7 2.78	59.94	4 51 18.1	6 41.7	0.168348	12 14
23	12 6 2.84	59.95	4 44 36.4	6 45.0	0.167946	12 13
24	12 5 2.89	59.90	4 37 51.4	6 47.8	0.167626	12 12
25	12 4 2.99	−59.76	4 31 3.6	+6 50.0	0.167388	12 12
26	12 3 3.23	59.55	−4 24 13.6	6 51.9	0.167233	12 12
27	12 2 3.68	59.27	4 17 21.7	6 53.3	0.167161	12 12
28	12 1 4.41	58.92	4 10 28.4	6 54.2	0.167171	12 12
29	12 0 5.49	58.51	4 3 34.2	6 54.6	0.167262	12 12
30	11 59 6.98	−58.02	3 56 39.6	+6 54.5	0.167434	12 12
31	11 58 8.96	57.47	−3 49 45.1	6 53.9	0.167688	12 12
April 1	11 57 11.49	56.84	3 42 51.2	6 52.7	0.168023	12 13
2	11 56 14.65	56.16	3 35 58.5	6 51.0	0.168437	12 14
3	11 55 18.49	55.40	3 29 7.5	6 49.0	0.168930	12 14
4	11 54 23.09	−54.59	3 22 18.5	+6 46.2	0.169502	12 15
5	11 53 28.50	53.68	−3 15 32.3	6 43.1	0.170151	12 17
6	11 52 34.82	52.73	3 8 49.2	6 39.4	0.170877	12 18
7	11 51 42.09	51.72	3 2 9.8	6 35.4	0.171678	12 19
8	11 50 50.37	50.66	2 55 34.4	6 30.7	0.172553	12 21
9	11 49 59.71	−49.51	2 49 3.7	+6 25.6	0.173501	12 22
10	11 49 10.20	48.33	−2 42 38.1	6 20.2	0.174520	12 24
11	11 48 21.87		2 36 17.9		0.175609	12 26

Opp. in AR. März 22 Gröfse = 11.7

P. Neugebauer.

(6) HEBE 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
März 8	12 47 6.61	−41.70	+11 0 7.6	+9 59.5	0.290654	16 12
9	12 46 24.91	42.67	11 10 7.1	9 58.0	0.289830	16 10
10	12 45 42.24	43.60	11 20 5.1	9 56.1	0.289066	16 8
11	12 44 58.64	44.47	11 30 1.2	9 53.5	0.288364	16 7
12	12 44 14.17	−45.31	11 39 54.7	+9 50.4	0.287724	16 5
13	12 43 28.86	46.08	+11 49 45.1	9 46.9	0.287146	16 4
14	12 42 42.78	46.82	11 59 32.0	9 42.7	0.286632	16 3
15	12 41 55.96	47.49	12 9 14.7	9 38.0	0.286182	16 2
16	12 41 8.47	48.12	12 18 52.7	9 32.7	0.285795	16 1
17	12 40 20.35	−48.70	12 28 25.4	+9 27.1	0.285473	16 0
18	12 39 31.65	49.21	+12 37 52.5	9 20.9	0.285215	16 0
19	12 38 42.44	49.68	12 47 13.4	9 14.1	0.285022	15 59
20	12 37 52.76	50.09	12 56 27.5	9 6.9	0.284895	15 59
21	12 37 2.67	50.45	13 5 34.4	8 59.3	0.284833	15 59
22	12 36 12.22	−50.76	13 14 33.7	+8 51.2	0.284836	15 59
23	12 35 21.46	51.00	+13 23 24.9	8 42.6	0.284904	15 59
24	12 34 30.46	51.20	13 32 7.5	8 33.6	0.285036	15 59
25	12 33 39.26	51.33	13 40 41.1	8 24.2	0.285233	16 0
26	12 32 47.93	51.42	13 49 5.3	8 14.5	0.285494	16 0
27	12 31 56.51	−51.46	13 57 19.8	+8 4.2	0.285819	16 1
☍ 28	12 31 5.05	51.43	+14 5 24.0	7 53.8	0.286208	16 2
29	12 30 13.62	51.36	14 13 17.8	7 42.8	0.286660	16 3
30	12 29 22.26	51.22	14 21 0.6	7 31.5	0.287175	16 4
31	12 28 31.04	51.04	14 28 32.1	7 20.0	0.287752	16 5
April 1	12 27 40.00	−50.80	14 35 52.1	+7 8.1	0.288390	16 7
2	12 26 49.20	50.51	+14 43 0.2	6 55.8	0.289089	16 8
3	12 25 58.69	50.16	14 49 56.0	6 43.3	0.289849	16 10
4	12 25 8.53	49.76	14 56 39.3	6 30.6	0.290668	16 12
5	12 24 18.77	49.30	15 3 9.9	6 17.5	0.291545	16 14
6	12 23 29.47	−48.80	15 9 27.4	+6 4.3	0.292480	16 16
7	12 22 40.67	48.24	+15 15 31.7	5 50.8	0.293472	16 18
8	12 21 52.43	47.62	15 21 22.5	5 37.1	0.294520	16 21
9	12 21 4.81	46.96	15 26 59.6	5 23.2	0.295622	16 23
10	12 20 17.85	46.25	15 32 22.8	5 9.2	0.296778	16 26
11	12 19 31.60	−45.49	15 37 32.0	+4 55.1	0.297987	16 28
12	12 18 46.11	44.69	+15 42 27.1	4 40.8	0.299247	16 31
13	12 18 1.42		15 47 7.9		0.300556	16 34

Opp. in AR. März 28 Gröfse = 9.5

R. Luther.

(247) EUKRATE 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
März 11	13 24 5.43	−48.76	−19 35 33.1	−3 8.7	0.372699	19 34
12	13 23 16.67	49.93	19 38 41.8	3 0.2	0.371415	19 30
13	13 22 26.74	51.05	19 41 42.0	2 51.4	0.370172	19 27
14	13 21 35.69	52.15	19 44 33.4	2 42.7	0.368972	19 24
15	13 20 43.54	−53.21	19 47 16.1	−2 33.8	0.367816	19 21
16	13 19 50.33	54.23	−19 49 49.9	2 25.0	0.366705	19 18
17	13 18 56.10	55.19	19 52 14.9	2 16.0	0.365640	19 15
18	13 18 0.91	56.14	19 54 30.9	2 7.1	0.364622	19 12
19	13 17 4.77	57.02	19 56 38.0	1 58.1	0.363652	19 10
20	13 16 7.75	−57.87	19 58 36.1	−1 49.2	0.362730	19 8
21	13 15 9.88	58.67	−20 0 25.3	1 40.2	0.361858	19 5
22	13 14 11.21	59.42	20 2 5.5	1 31.2	0.361036	19 3
23	13 13 11.79	60.13	20 3 36.7	1 22.2	0.360266	19 1
24	13 12 11.66	60.79	20 4 58.9	1 13.3	0.359548	18 59
25	13 11 10.87	−61.39	20 6 12.2	−1 4.3	0.358882	18 57
26	13 10 9.48	61.96	−20 7 16.5	0 55.5	0.358270	18 56
27	13 9 7.52	62.47	20 8 12.0	0 46.7	0.357712	18 54
28	13 8 5.05	62.92	20 8 58.7	0 37.9	0.357209	18 53
29	13 7 2.13	63.33	20 9 36.6	0 29.2	0.356761	18 52
30	13 5 58.80	−63.67	20 10 5.8	−0 20.6	0.356368	18 51
31	13 4 55.13	63.98	−20 10 26.4	0 12.1	0.356031	18 50
April 1	13 3 51.15	64.22	20 10 38.5	−0 3.7	0.355751	18 49
2	13 2 46.93	64.41	20 10 42.2	+0 4.5	0.355529	18 49
3	13 1 42.52	64.54	20 10 37.7	0 12.7	0.355363	18 48
4	13 0 37.98	−64.62	20 10 25.0	+0 20.7	0.355255	18 48
☍ 5	12 59 33.36	64.63	−20 10 4.3	0 28.5	0.355206	18 48
6	12 58 28.73	64.59	20 9 35.8	0 36.0	0.355214	18 48
7	12 57 24.14	64.49	20 8 59.8	0 43.5	0.355281	18 48
8	12 56 19.65	64.32	20 8 16.3	0 50.7	0.355407	18 48
9	12 55 15.33	−64.11	20 7 25.6	+0 57.7	0.355590	18 49
10	12 54 11.22	63.83	−20 6 27.9	1 4.3	0.355832	18 49
11	12 53 7.39	63.49	20 5 23.6	1 10.9	0.356131	18 50
12	12 52 3.90	63.11	20 4 12.7	1 17.0	0.356489	18 51
13	12 51 0.79	62.66	20 2 55.7	1 23.0	0.356903	18 52
14	12 49 58.13	−62.16	−20 1 32.7	+1 28.6	0.357375	18 53
15	12 48 55.97	61.60	−20 0 4.1	1 34.0	0.357904	18 54
16	12 47 54.37		19 58 30.1		0.358488	18 56

Opp. in AR. April 5 Gröfse = 11.9

W. Luther.

(118) PEITHO 1899.

12^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
April 8	14 34 10.93	−52.71	−11 42 50.8	+2 2.5	0.233662	14 13
9	14 33 18.22	53.70	11 40 48.3	2 5.3	0.232726	14 11
10	14 32 24.52	54.64	11 38 43.0	2 8.0	0.231856	14 9
11	14 31 29.88	55.50	11 36 35.0	2 10.5	0.231052	14 8
12	14 30 34.38	−56.31	11 34 24.5	+2 12.9	0.230315	14 6
13	14 29 38.07	57.06	−11 32 11.6	2 15.2	0.229645	14 5
14	14 28 41.01	57.75	11 29 56.4	2 17.3	0.229044	14 4
15	14 27 43.26	58.37	11 27 39.1	2 19.2	0.228513	14 3
16	14 26 44.89	58.93	11 25 19.9	2 20.7	0.228052	14 2
17	14 25 45.96	−59.42	11 22 59.2	+2 21.9	0.227661	14 1
18	14 24 46.54	59.84	−11 20 37.3	2 22.7	0.227341	14 0
19	14 23 46.70	60.20	11 18 14.6	2 23.4	0.227094	14 0
20	14 22 46.50	60.49	11 15 51.2	2 23.9	0.226919	13 59
21	14 21 46.01	60.72	11 13 27.3	2 24.1	0.226816	13 59
22	14 20 45.29	−60.88	11 11 3.2	+2 24.1	0.226785	13 59
23	14 19 44.41	60.98	−11 8 39.1	2 23.9	0.226827	13 59
24	14 18 43.43	61.02	11 6 15.2	2 23.5	0.226942	13 59
25	14 17 42.41	60.98	11 3 51.7	2 22.8	0.227129	14 0
☍ 26	14 16 41.43	60.88	11 1 28.9	2 21.8	0.227389	14 0
27	14 15 40.55	−60.72	10 59 7.1	+2 20.6	0.227721	14 1
28	14 14 39.83	60.50	−10 56 46.5	2 19.1	0.228126	14 2
29	14 13 39.33	60.22	10 54 27.4	2 17.3	0.228602	14 3
30	14 12 39.11	59.88	10 52 10.1	2 15.3	0.229150	14 4
Mai 1	14 11 39.23	59.46	10 49 54.8	2 13.1	0.229769	14 5
2	14 10 39.77	−58.99	10 47 41.7	+2 10.8	0.230458	14 6
3	14 9 40.78	58.46	−10 45 30.9	2 8.0	0.231217	14 8
4	14 8 42.32	57.86	10 43 22.9	2 5.0	0.232045	14 9
5	14 7 44.46	57.20	10 41 17.9	2 1.6	0.232942	14 11
6	14 6 47.26	56.48	10 39 16.3	1 58.2	0.233908	14 13
7	14 5 50.78	−55.72	10 37 18.1	+1 54.4	0.234940	14 15
8	14 4 55.06	54.87	−10 35 23.7	1 50.4	0.236038	14 17
9	14 4 0.19	53.99	10 33 33.3	1 46.2	0.237201	14 20
10	14 3 6.20	53.06	10 31 47.1	1 41.8	0.238428	14 22
11	14 2 13.14	52.08	10 30 5.3	1 37.0	0.239716	14 24
12	14 1 21.06	−51.02	10 28 28.3	+1 32.1	0.241065	14 27
13	14 0 30.04	49.95	−10 26 56.2	1 27.1	0.242473	14 30
14	13 59 40.09		10 25 29.1		0.243940	14 33

Opp. in AR. April 26 Größe = 11.4

P. Neugebauer.

(17) THETIS 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
April 26	15h 47m 7.52s	−40.66s	−9° 53′ 9.5″	+3′ 43.6″	0.089308	10m 11s
27	15 46 26.86	42.03	9 49 25.9	3 42.2	0.087575	10 9
28	15 45 44.83	43.38	9 45 43.7	3 40.4	0.085914	10 7
29	15 45 1.45	44.64	9 42 3.3	3 38.0	0.084327	10 4
30	15 44 16.81	−45.85	9 38 25.3	+3 35.2	0.082815	10 2
Mai 1	15 43 30.96	47.00	−9 34 50.1	3 32.4	0.081380	10 0
2	15 42 43.96	48.12	9 31 17.7	3 29.2	0.080023	9 58
3	15 41 55.84	49.13	9 27 48.5	3 25.6	0.078746	9 57
4	15 41 6.71	50.08	9 24 22.9	3 21.7	0.077551	9 55
5	15 40 16.63	−50.94	9 21 1.2	+3 17.4	0.076439	9 54
6	15 39 25.69	51.76	−9 17 43.8	3 12.8	0.075410	9 52
7	15 38 33.93	52.48	9 14 31.0	3 7.8	0.074467	9 51
8	15 37 41.45	53.12	9 11 23.2	3 2.5	0.073610	9 50
9	15 36 48.33	53.66	9 8 20.7	2 56.8	0.072840	9 49
10	15 35 54.67	−54.14	9 5 23.9	+2 50.8	0.072158	9 48
11	15 35 0.53	54.52	−9 2 33.1	2 44.4	0.071565	9 47
12	15 34 6.01	54.82	8 59 48.7	2 37.9	0.071061	9 46
13	15 33 11.19	55.02	8 57 10.8	2 31.0	0.070645	9 46
14	15 32 16.17	55.14	8 54 39.8	2 23.8	0.070319	9 45
☍ 15	15 31 21.03	−55.18	8 52 16.0	+2 16.4	0.070083	9 45
16	15 30 25.85	55.14	−8 49 59.6	2 8.7	0.069936	9 45
17	15 29 30.71	55.01	8 47 50.9	2 0.8	0.069878	9 45
18	15 28 35.70	54.78	8 45 50.1	1 52.4	0.069908	9 45
19	15 27 40.92	54.50	8 43 57.7	1 44.0	0.070027	9 45
20	15 26 46.42	−54.12	8 42 13.7	+1 35.4	0.070234	9 45
21	15 25 52.30	53.68	−8 40 38.3	1 26.5	0.070528	9 46
22	15 24 58.62	53.13	8 39 11.8	1 17.4	0.070909	9 46
23	15 24 5.49	52.53	8 37 54.4	1 8.2	0.071376	9 47
24	15 23 12.96	51.87	8 36 46.2	0 58.9	0.071927	9 48
25	15 22 21.09	−51.12	8 35 47.3	+0 49.4	0.072562	9 48
26	15 21 29.97	50.28	−8 34 57.9	0 39.6	0.073280	9 49
27	15 20 39.69	49.42	8 34 18.3	0 29.8	0.074080	9 50
28	15 19 50.27	48.48	8 33 48.5	0 19.9	0.074960	9 52
29	15 19 1.79	47.45	8 33 28.6	+0 9.9	0.075920	9 53
30	15 18 14.34	−46.34	8 33 18.7	−0 0.3	0.076958	9 54
31	15 17 28.00	45.20	−8 33 19.0	0 10.7	0.078063	9 55
Juni 1	15 16 42.80		8 33 29.7		0.079264	9 57

Opp. in AR. Mai 15 Gröſse = 9.3

P. Neugebauer.

(168) SIBYLLA 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
April 27	15h 46m 27s.87	−37s.25	−17° 21′ 41″.3	+3′ 10″.9	0.421409	21m 54s
28	15 45 50.62	37.92	17 18 30.4	3 12.9	0.420480	21 51
29	15 45 12.70	38.55	17 15 17.5	3 14.8	0.419592	21 48
30	15 44 34.15	39.15	17 12 2.7	3 16.5	0.418747	21 46
Mai 1	15 43 55.00	−39.73	17 8 46.2	+3 18.2	0.417947	21 43
2	15 43 15.27	40.26	−17 5 28.0	3 19.7	0.417192	21 41
3	15 42 35.01	40.76	17 2 8.3	3 21.1	0.416482	21 39
4	15 41 54.25	41.22	16 58 47.2	3 22.4	0.415818	21 37
5	15 41 13.03	41.65	16 55 24.8	3 23.7	0.415200	21 35
6	15 40 31.38	−42.04	16 52 1.1	+3 24.6	0.414630	21 33
7	15 39 49.34	42.38	−16 48 36.5	3 25.5	0.414108	21 32
8	15 39 6.96	42.69	16 45 11.0	3 26.2	0.413633	21 30
9	15 38 24.27	42.96	16 41 44.8	3 26.7	0.413206	21 29
10	15 37 41.31	43.18	16 38 18.1	3 27.0	0.412828	21 28
11	15 36 58.13	−43.36	16 34 51.1	+3 27.3	0.412498	21 27
12	15 36 14.77	43.49	−16 31 23.8	3 27.3	0.412217	21 26
13	15 35 31.28	43.58	16 27 56.5	3 27.3	0.411986	21 25
14	15 34 47.70	43.64	16 24 29.2	3 27.1	0.411804	21 25
15	15 34 4.06	43.64	16 21 2.1	3 26.7	0.411672	21 24
☍ 16	15 33 20.42	−43.62	16 17 35.4	+3 26.1	0.411589	21 24
17	15 32 36.80	43.55	−16 14 9.3	3 25.4	0.411554	21 24
18	15 31 53.25	43.45	16 10 43.9	3 24.5	0.411569	21 24
19	15 31 9.80	43.31	16 7 19.4	3 23.5	0.411632	21 24
20	15 30 26.49	43.12	16 3 55.9	3 22.2	0.411744	21 25
21	15 29 43.37	−42.90	16 0 33.7	+3 20.9	0.411904	21 25
22	15 29 0.47	42.64	−15 57 12.8	3 19.4	0.412113	21 26
23	15 28 17.83	42.35	15 53 53.4	3 17.8	0.412370	21 26
24	15 27 35.48	42.03	15 50 35.6	3 15.9	0.412676	21 27
25	15 26 53.45	41.66	15 47 19.7	3 13.9	0.413029	21 28
26	15 26 11.79	−41.26	15 44 5.8	+3 11.8	0.413429	21 30
27	15 25 30.53	40.83	−15 40 54.0	3 9.4	0.413875	21 31
28	15 24 49.70	40.37	15 37 44.6	3 7.0	0.414367	21 32
29	15 24 9.33	39.86	15 34 37.6	3 4.4	0.414905	21 34
30	15 23 29.47	39.33	15 31 33.2	3 1.7	0.415489	21 36
31	15 22 50.14	−38.77	15 28 31.5	+2 58.9	0.416117	21 38
Juni 1	15 22 11.37	38.17	−15 25 32.6	2 55.9	0.416790	21 40
2	15 21 33.20		15 22 36.7		0.417508	21 42

Opp. in AR. Mai 16 Gröfse = 11.9

v. d. Groeben.

(175) ANDROMACHE 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Mai 5	16 12 19.34	−42.73	−23 45 2.1	+0 38.6	0.326053	17 35
6	16 11 36.61	43.64	23 44 23.5	0 42.4	0.324666	17 31
7	16 10 52.97	44.50	23 43 41.1	0 46.2	0.323328	17 28
8	16 10 8.47	45.31	23 42 54.9	0 49.9	0.322040	17 25
9	16 9 23.16	−46.08	23 42 5.0	+0 53.6	0.320804	17 22
10	16 8 37.08	46.79	−23 41 11.4	0 57.3	0.319620	17 19
11	16 7 50.29	47.46	23 40 14.1	1 1.0	0.318490	17 16
12	16 7 2.83	48.07	23 39 13.1	1 4.5	0.317414	17 14
13	16 6 14.76	48.65	23 38 8.6	1 8.0	0.316392	17 11
14	16 5 26.11	−49.16	23 37 0.6	+1 11.6	0.315426	17 9
15	16 4 36.95	49.63	−23 35 49.0	1 14.9	0.314516	17 7
16	16 3 47.32	50.04	23 34 34.1	1 18.1	0.313663	17 5
17	16 2 57.28	50.39	23 33 16.0	1 21.4	0.312866	17 3
18	16 2 6.89	50.70	23 31 54.6	1 24.5	0.312127	17 1
19	16 1 16.19	−50.96	23 30 30.1	+1 27.5	0.311446	17 0
20	16 0 25.23	51.15	−23 29 2.6	1 30.4	0.310824	16 59
21	15 59 34.08	51.30	23 27 32.2	1 33.2	0.310260	16 57
☍ 22	15 58 42.78	51.39	23 25 59.0	1 35.9	0.309755	16 56
23	15 57 51.39	51.43	23 24 23.1	1 38.4	0.309308	16 55
24	15 56 59.96	−51.42	23 22 44.7	+1 40.9	0.308920	16 54
25	15 56 8.54	51.35	−23 21 3.8	1 43.2	0.308592	16 53
26	15 55 17.19	51.24	23 19 20.6	1 45.3	0.308323	16 53
27	15 54 25.95	51.07	23 17 35.3	1 47.4	0.308113	16 52
28	15 53 34.88	50.84	23 15 47.9	1 49.3	0.307962	16 52
29	15 52 44.04	−50.57	23 13 58.6	+1 51.0	0.307871	16 51
30	15 51 53.47	50.26	−23 12 7.6	1 52.6	0.307839	16 51
31	15 51 3.21	49.88	23 10 15.0	1 53.9	0.307866	16 52
Juni 1	15 50 13.33	49.44	23 8 21.1	1 55.0	0.307951	16 52
2	15 49 23.89	48.96	23 6 26.1	1 56.1	0.308095	16 52
3	15 48 34.93	−48.41	23 4 30.0	+1 57.0	0.308297	16 52
4	15 47 46.52	47.82	−23 2 33.0	1 57.6	0.308557	16 53
5	15 46 58.70	47.18	23 0 35.4	1 58.0	0.308874	16 54
6	15 46 11.52	46.49	22 58 37.4	1 58.3	0.309247	16 55
7	15 45 25.03	45.74	22 56 39.1	1 58.4	0.309677	16 56
8	15 44 39.29	−44.95	22 54 40.7	+1 58.3	0.310162	16 57
9	15 43 54.34	44.12	−22 52 42.4	1 58.0	0.310702	16 58
10	15 43 10.22		22 50 44.4		0.311295	16 59

Opp. in AR. Mai 22 Größe = 11.9

Berberich.

(178) BELISANA 1899.

12h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Mai	11	16h 32m 33s.71	−51s.45	−22° 33′ 37″.0	+0′ 44″.1	0.140668	11m 28s
	12	16 31 42.26	52.60	22 32 52.9	0 47.6	0.139352	11 26
	13	16 30 49.66	53.70	22 32 5.3	0 51.1	0.138107	11 24
	14	16 29 55.96	54.70	22 31 14.2	0 54.6	0.136937	11 22
	15	16 29 1.26	−55.64	22 30 19.6	+0 57.9	0.135842	11 21
	16	16 28 5.62	56.51	−22 29 21.7	1 1.2	0.134822	11 19
	17	16 27 9.11	57.30	22 28 20.5	1 4.6	0.133880	11 18
	18	16 26 11.81	58.03	22 27 15.9	1 7.8	0.133016	11 16
	19	16 25 13.78	58.65	22 26 8.1	1 11.0	0.132231	11 15
	20	16 24 15.13	−59.22	22 24 57.1	+1 14.1	0.131525	11 14
	21	16 23 15.91	59.70	−22 23 43.0	1 16.9	0.130899	11 13
	22	16 22 16.21	60.09	22 22 26.1	1 19.7	0.130355	11 12
	23	16 21 16.12	60.42	22 21 6.4	1 22.3	0.129891	11 11
	24	16 20 15.70	60.65	22 19 44.1	1 24.9	0.129509	11 11
	25	16 19 15.05	−60.82	22 18 19.2	+1 27.4	0.129209	11 10
	26	16 18 14.23	60.90	−22 16 51.8	1 29.6	0.128991	11 10
	☍ 27	16 17 13.33	60.90	22 15 22.2	1 31.6	0.128855	11 10
	28	16 16 12.43	60.82	22 13 50.6	1 33.6	0.128803	11 10
	29	16 15 11.61	60.68	22 12 17.0	1 35.3	0.128833	11 10
	30	16 14 10.93	−60.44	22 10 41.7	+1 37.0	0.128947	11 10
	31	16 13 10.49	60.12	−22 9 4.7	1 38.2	0.129143	11 10
Juni	1	16 12 10.37	59.72	22 7 26.5	1 39.4	0.129422	11 11
	2	16 11 10.65	59.22	22 5 47.1	1 40.3	0.129783	11 11
	3	16 10 11.43	58.66	22 4 6.8	1 41.1	0.130226	11 12
	4	16 9 12.77	−58.02	22 2 25.7	+1 41.5	0.130750	11 13
	5	16 8 14.75	57.28	−22 0 44.2	1 41.7	0.131354	11 14
	6	16 7 17.47	56.46	21 59 2.5	1 41.8	0.132037	11 15
	7	16 6 21.01	55.60	21 57 20.7	1 41.6	0.132800	11 16
	8	16 5 25.41	54.64	21 55 39.1	1 41.2	0.133641	11 17
	9	16 4 30.77	−53.62	21 53 57.9	+1 40.4	0.134558	11 19
	10	16 3 37.15	52.50	−21 52 17.5	1 39.5	0.135550	11 20
	11	16 2 44.65	51.32	21 50 38.0	1 38.3	0.136615	11 22
	12	16 1 53.33	50.11	21 48 59.7	1 37.0	0.137753	11 24
	13	16 1 3.22	48.84	21 47 22.7	1 35.3	0.138964	11 26
	14	16 0 14.38	−47.48	21 45 47.4	+1 33.4	0.140246	11 28
	15	15 59 26.90	46.06	−21 44 14.0	1 31.4	0.141596	11 30
	16	15 58 40.84		21 42 42.6		0.143011	11 32

Opp. in AR. Mai 27 Größe = 11.7

P. Neugebauer.

(241) GERMANIA 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juni 1	17 39 53.60	−48.68	−24 59 46.1	+1 50.0	0.301587	16 37
2	17 39 4.92	49.35	24 57 56.1	1 52.4	0.300652	16 35
3	17 38 15.57	49.97	24 56 3.7	1 55.0	0.299776	16 33
4	17 37 25.60	50.52	24 54 8.7	1 57.4	0.298957	16 31
5	17 36 35.08	−51.03	24 52 11.3	+1 59.8	0.298197	16 29
6	17 35 44.05	51.47	−24 50 11.5	2 2.1	0.297495	16 28
7	17 34 52.58	51.86	24 48 9.4	2 4.6	0.296852	16 26
8	17 34 0.72	52.19	24 46 4.8	2 6.8	0.296269	16 25
9	17 33 8.53	52.46	24 43 58.0	2 9.1	0.295746	16 24
10	17 32 16.07	−52.66	24 41 48.9	+2 11.3	0.295284	16 23
11	17 31 23.41	52.82	−24 39 37.6	2 13.5	0.294882	16 22
12	17 30 30.59	52.91	24 37 24.1	2 15.5	0.294542	16 21
☍ 13	17 29 37.68	52.94	24 35 8.6	2 17.5	0.294263	16 20
14	17 28 44.74	52.92	24 32 51.1	2 19.4	0.294046	16 20
15	17 27 51.82	−52.83	24 30 31.7	+2 21.2	0.293890	16 19
16	17 26 58.99	52.68	−24 28 10.5	2 23.0	0.293796	16 19
17	17 26 6.31	52.48	24 25 47.5	2 24.5	0.293762	16 19
18	17 25 13.83	52.22	24 23 23.0	2 26.1	0.293790	16 19
19	17 24 21.61	51.91	24 20 56.9	2 27.5	0.293879	16 19
20	17 23 29.70	−51.55	24 18 29.4	+2 28.7	0.294028	16 20
21	17 22 38.15	51.13	−24 16 0.7	2 29.9	0.294237	16 20
22	17 21 47.02	50.66	24 13 30.8	2 31.0	0.294506	16 21
23	17 20 56.36	50.15	24 10 59.8	2 31.9	0.294835	16 21
24	17 20 6.21	49.57	24 8 27.9	2 32.7	0.295223	16 22
25	17 19 16.64	−48.96	24 5 55.2	+2 33.4	0.295669	16 23
26	17 18 27.68	48.29	−24 3 21.8	2 33.8	0.296173	16 24
27	17 17 39.39	47.58	24 0 48.0	2 34.3	0.296734	16 26
28	17 16 51.81	46.81	23 58 13.7	2 34.4	0.297353	16 27
29	17 16 5.00	46.00	23 55 39.3	2 34.6	0.298027	16 29
30	17 15 19.00	−45.15	23 53 4.7	+2 34.5	0.298757	16 30
Juli 1	17 14 33.85	44.24	−23 50 30.2	2 34.4	0.299542	16 32
2	17 13 49.61	43.30	23 47 55.8	2 34.1	0.300381	16 34
3	17 13 6.31	42.31	23 45 21.7	2 33.6	0.301273	16 36
4	17 12 24.00	41.27	23 42 48.1	2 33.0	0.302218	16 38
5	17 11 42.73	−40.20	23 40 15.1	+2 32.4	0.303214	16 41
6	17 11 2.53	39.08	−23 37 42.7	2 31.4	0.304260	16 43
7	17 10 23.45		23 35 11.3		0.305356	16 46

Opp. in AR. Juni 13 Gröſse = 11.1

W. Luther.

(190) ISMENE 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	″		m s
Juni 4	18 12 9.63	−34.68	−15 37 40.5	+26.1	0.555206	29 48
5	18 11 34.95	35.11	15 37 14.4	24.4	0.554658	29 45
6	18 10 59.84	35.52	15 36 50.0	22.5	0.554142	29 43
7	18 10 24.32	35.90	15 36 27.5	20.6	0.553660	29 41
8	18 9 48.42	−36.24	15 36 6.9	+18.7	0.553212	29 39
9	18 9 12.18	36.57	−15 35 48.2	16.9	0.552798	29 38
10	18 8 35.61	36.86	15 35 31.3	15.0	0.552419	29 36
11	18 7 58.75	37.14	15 35 16.3	13.1	0.552075	29 35
12	18 7 21.61	37.38	15 35 3.2	11.2	0.551765	29 34
13	18 6 44.23	−37.59	15 34 52.0	+ 9.4	0.551491	29 33
14	18 6 6.64	37.78	−15 34 42.6	7.6	0.551253	29 32
15	18 5 28.86	37.94	15 34 35.0	5.8	0.551050	29 31
16	18 4 50.92	38.06	15 34 29.2	4.1	0.550883	29 30
17	18 4 12.86	38.17	15 34 25.1	2.2	0.550751	29 29
18	18 3 34.69	−38.24	15 34 22.9	+ 0.3	0.550655	29 29
19	18 2 56.45	38.29	−15 34 22.6	− 1.5	0.550595	29 29
20	18 2 18.16	38.31	15 34 24.1	3.4	0.550572	29 29
☍ 21	18 1 39.85	38.31	15 34 27.5	5.2	0.550585	29 29
22	18 1 1.54	38.28	15 34 32.7	7.0	0.550633	29 29
23	18 0 23.26	−38.21	15 34 39.7	− 8.8	0.550717	29 29
24	17 59 45.05	38.13	−15 34 48.5	10.6	0.550837	29 30
25	17 59 6.92	38.02	15 34 59.1	12.4	0.550992	29 30
26	17 58 28.90	37.88	15 35 11.5	14.3	0.551183	29 31
27	17 57 51.02	37.72	15 35 25.8	16.1	0.551409	29 32
28	17 57 13.30	−37.54	15 35 41.9	−17.8	0.551671	29 33
29	17 56 35.76	37.31	−15 35 59.7	19.7	0.551969	29 34
30	17 55 58.45	37.07	15 36 19.4	21.5	0.552302	29 36
Juli 1	17 55 21.38	36.80	15 36 40.9	23.3	0.552669	29 37
2	17 54 44.58	36.50	15 37 4.2	25.1	0.553071	29 39
3	17 54 8.08	−36.18	15 37 29.3	−26.9	0.553509	29 41
4	17 53 31.90	35.82	−15 37 56.2	28.7	0.553980	29 42
5	17 52 56.08	35.44	15 38 24.9	30.5	0.554485	29 44
6	17 52 20.64	35.03	15 38 55.4	32.2	0.555024	29 47
7	17 51 45.61	34.60	15 39 27.6	33.9	0.555596	29 49
8	17 51 11.01	−34.14	15 40 1.5	−35.7	0.556201	29 52
9	17 50 36.87	33.66	−15 40 37.2	37.4	0.556839	29 54
10	17 50 3.21		15 41 14.6		0.557509	29 57

Opp. in AR. Juni 21 Gröfse = 12.7

P. Neugebauer.

(82) ALKMENE 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juli 1	19 43 44.09	−52.72	−25 26 17.6	−2 29.8	0.360806	19 2
2	19 42 51.37	53.26	25 28 47.4	2 28.1	0.360385	19 1
3	19 41 58.11	53.77	25 31 15.5	2 26.2	0.360018	19 0
4	19 41 4.34	54.22	25 33 41.7	2 24.2	0.359704	19 0
5	19 40 10.12	−54.63	25 36 5.9	−2 22.0	0.359443	18 59
6	19 39 15.49	54.97	−25 38 27.9	2 19.6	0.359237	18 58
7	19 38 20.52	55.28	25 40 47.5	2 17.2	0.359086	18 58
8	19 37 25.24	55.51	25 43 4.7	2 14.5	0.358989	18 58
9	19 36 29.73	55.71	25 45 19.2	2 11.7	0.358947	18 58
10	19 35 34.02	−55.85	25 47 30.9	−2 8.8	0.358961	18 58
11	19 34 38.17	55.93	−25 49 39.7	2 5.7	0.359029	18 58
12	19 33 42.24	55.95	25 51 45.4	2 2.5	0.359153	18 58
☍ 13	19 32 46.29	55.94	25 53 47.9	1 59.2	0.359332	18 59
14	19 31 50.35	55.85	25 55 47.1	1 55.8	0.359566	18 59
15	19 30 54.50	−55.73	25 57 42.9	−1 52.4	0.359855	19 0
16	19 29 58.77	55.54	−25 59 35.3	1 48.7	0.360199	19 1
17	19 29 3.23	55.31	26 1 24.0	1 45.1	0.360597	19 2
18	19 28 7.92	55.02	26 3 9.1	1 41.4	0.361049	19 3
19	19 27 12.90	54.69	26 4 50.5	1 37.6	0.361554	19 4
20	19 26 18.21	−54.31	26 6 28.1	−1 33.8	0.362113	19 6
21	19 25 23.90	53.88	−26 8 1.9	1 29.9	0.362725	19 8
22	19 24 30.02	53.40	26 9 31.8	1 26.0	0.363388	19 9
23	19 23 36.62	52.89	26 10 57.8	1 22.1	0.364104	19 11
24	19 22 43.73	52.32	26 12 19.9	1 18.1	0.364871	19 13
25	19 21 51.41	−51.72	26 13 38.0	−1 14.2	0.365688	19 15
26	19 20 59.69	51.06	−26 14 52.2	1 10.2	0.366555	19 18
27	19 20 8.63	50.37	26 16 2.4	1 6.2	0.367472	19 20
28	19 19 18.26	49.62	26 17 8.6	1 2.2	0.368438	19 23
29	19 18 28.64	48.84	26 18 10.8	0 58.2	0.369452	19 25
30	19 17 39.80	−48.01	26 19 9.0	−0 54.1	0.370513	19 28
31	19 16 51.79	47.15	−26 20 3.1	0 50.2	0.371621	19 31
Aug. 1	19 16 4.64	46.24	26 20 53.3	0 46.2	0.372775	19 34
2	19 15 18.40	45.29	26 21 39.5	0 42.2	0.373974	19 38
3	19 14 33.11	44.31	26 22 21.7	0 38.3	0.375217	19 41
4	19 13 48.80	−43.29	26 23 0.0	−0 34.4	0.376503	19 45
5	19 13 5.51	42.22	−26 23 34.4	0 30.6	0.377831	19 48
6	19 12 23.29		26 24 5.0		0.379200	19 52

Opp. in AR. Juli 13   Gröfse = 12.2

W. Luther.

(108) HECUBA 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ' "	' "		m s
Juni 25	19 47 39.98	−44.16	−26 49 27.5	−1 59.8	0.376330	19 44
26	19 46 55.82	44.92	26 51 27.3	1 58.5	0.375633	19 42
27	19 46 10.90	45.66	26 53 25.8	1 57.1	0.374983	19 40
28	19 45 25.24	46.36	26 55 22.9	1 55.5	0.374381	19 39
29	19 44 38.88	−47.01	26 57 18.4	−1 53.8	0.373827	19 37
30	19 43 51.87	47.61	−26 59 12.2	1 51.9	0.373321	19 36
Juli 1	19 43 4.26	48.20	27 1 4.1	1 49.8	0.372865	19 35
2	19 42 16.06	48.72	27 2 53.9	1 47.6	0.372459	19 34
3	19 41 27.34	49.20	27 4 41.5	1 45.2	0.372105	19 33
4	19 40 38.14	−49.61	27 6 26.7	−1 42.7	0.371802	19 32
5	19 39 48.53	49.99	−27 8 9.4	1 39.9	0.371550	19 31
6	19 38 58.54	50.31	27 9 49.3	1 37.1	0.371350	19 31
7	19 38 8.23	50.60	27 11 26.4	1 34.2	0.371202	19 30
8	19 37 17.63	50.82	27 13 0.6	1 31.0	0.371107	19 30
9	19 36 26.81	−51.00	27 14 31.6	−1 27.8	0.371064	19 30
10	19 35 35.81	51.13	−27 15 59.4	1 24.4	0.371074	19 30
11	19 34 44.68	51.22	27 17 23.8	1 21.0	0.371136	19 30
12	19 33 53.46	51.23	27 18 44.8	1 17.4	0.371251	19 30
☍ 13	19 33 2.23	51.20	27 20 2.2	1 13.8	0.371420	19 31
14	19 32 11.03	−51.12	27 21 16.0	−1 10.0	0.371642	19 31
15	19 31 19.91	50.99	−27 22 26.0	1 6.2	0.371916	19 32
16	19 30 28.92	50.81	27 23 32.2	1 2.4	0.372241	19 33
17	19 29 38.11	50.58	27 24 34.6	0 58.5	0.372618	19 34
18	19 28 47.53	50.31	27 25 33.1	0 54.6	0.373047	19 35
19	19 27 57.22	−50.00	27 26 27.7	−0 50.6	0.373528	19 36
20	19 27 7.22	49.63	−27 27 18.3	0 46.6	0.374060	19 38
21	19 26 17.59	49.22	27 28 4.9	0 42.5	0.374642	19 39
22	19 25 28.37	48.77	27 28 47.4	0 38.5	0.375274	19 41
23	19 24 39.60	48.28	27 29 25.9	0 34.4	0.375955	19 43
24	19 23 51.32	−47.73	27 30 0.3	−0 30.3	0.376685	19 45
25	19 23 3.59	47.15	−27 30 30.6	0 26.2	0.377465	19 47
26	19 22 16.44	46.53	27 30 56.8	0 22.1	0.378293	19 50
27	19 21 29.91	45.87	27 31 18.9	0 18.0	0.379169	19 52
28	19 20 44.04	45.17	27 31 36.9	0 13.9	0.380092	19 54
29	19 19 58.87	−44.41	27 31 50.8	−0 9.9	0.381060	19 57
30	19 19 14.46	43.63	−27 32 0.7	0 5.9	0.382073	20 0
31	19 18 30.83		27 32 6.6		0.383132	20 3

Opp. in AR. Juli 13 Gröſse = 11.9

P. Neugebauer.

(176) IDUNNA 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Juli 1	19h 49m 52s.51	−39s.56	+11° 53′ 58″.2	+2′ 11″.9	0.345579	18m 23s
2	19 49 12.95	40.19	11 56 10.1	1 57.6	0.344415	18 20
3	19 48 32.76	40.80	11 58 7.7	1 43.1	0.343289	18 17
4	19 47 51.96	41.39	11 59 50.8	1 28.5	0.342203	18 15
5	19 47 10.57	−41.95	12 1 19.3	+1 13.8	0.341158	18 12
6	19 46 28.62	42.46	+12 2 33.1	0 58.8	0.340154	18 10
7	19 45 46.16	42.91	12 3 31.9	0 43.8	0.339190	18 7
8	19 45 3.25	43.33	12 4 15.7	0 28.8	0.338269	18 5
9	19 44 19.92	43.72	12 4 44.5	+0 13.7	0.337391	18 2
10	19 43 36.20	−44.06	12 4 58.2	−0 1.5	0.336557	18 0
11	19 42 52.14	44.33	+12 4 56.7	0 16.7	0.335766	17 58
12	19 42 7.81	44.57	12 4 40.0	0 31.9	0.335019	17 57
13	19 41 23.24	44.76	12 4 8.1	0 47.2	0.334317	17 55
14	19 40 38.48	44.92	12 3 20.9	1 2.5	0.333661	17 53
☍ 15	19 39 53.56	−45.02	12 2 18.4	−1 17.7	0.333049	17 52
16	19 39 8.54	45.09	+12 1 0.7	1 32.8	0.332483	17 50
17	19 38 23.45	45.10	11 59 27.9	1 47.9	0.331962	17 49
18	19 37 38.35	45.06	11 57 40.0	2 2.9	0.331488	17 48
19	19 36 53.29	44.99	11 55 37.1	2 17.9	0.331060	17 47
20	19 36 8.30	−44.87	11 53 19.2	−2 32.7	0.330679	17 46
21	19 35 23.43	44.70	+11 50 46.5	2 47.4	0.330344	17 45
22	19 34 38.73	44.48	11 47 59.1	3 2.0	0.330056	17 44
23	19 33 54.25	44.24	11 44 57.1	3 16.5	0.329814	17 44
24	19 33 10.01	43.95	11 41 40.6	3 30.8	0.329618	17 43
25	19 32 26.06	−43.62	11 38 9.8	−3 44.9	0.329470	17 43
26	19 31 42.44	43.23	+11 34 24.9	3 58.9	0.329368	17 43
27	19 30 59.21	42.81	11 30 26.0	4 12.8	0.329314	17 43
28	19 30 16.40	42.34	11 26 13.2	4 26.5	0.329306	17 43
29	19 29 34.06	41.82	11 21 46.7	4 40.2	0.329344	17 43
30	19 28 52.24	−41.26	11 17 6.5	−4 53.6	0.329429	17 43
31	19 28 10.98	40.66	+11 12 12.9	5 6.6	0.329561	17 43
Aug. 1	19 27 30.32	40.02	11 7 6.3	5 19.5	0.329739	17 44
2	19 26 50.30	39.32	11 1 46.8	5 32.0	0.329963	17 44
3	19 26 10.98	38.58	10 56 14.8	5 44.2	0.330233	17 45
4	19 25 32.40	−37.82	10 50 30.6	−5 56.2	0.330549	17 46
5	19 24 54.58	37.02	+10 44 34.4	6 7.8	0.330909	17 47
6	19 24 17.56		10 38 26.6		0.331314	17 48

Opp. in AR. Juli 15 Gröſse = 12.0

P. Neugebauer.

(170) MARIA 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juli 8	20 38 0.24	−55.52	−19 20 50.8	+1 37.3	0.238158	14 21
9	20 37 4.72	56.52	19 19 13.5	1 36.6	0.236970	14 19
10	20 36 8.20	57.49	19 17 36.9	1 36.0	0.235844	14 17
11	20 35 10.71	58.39	19 16 0.9	1 35.6	0.234781	14 15
12	20 34 12.32	−59.24	19 14 25.3	+1 35.3	0.233782	14 13
13	20 33 13.08	60.02	−19 12 50.0	1 35.1	0.232848	14 11
14	20 32 13.06	60.74	19 11 14.9	1 35.1	0.231979	14 9
15	20 31 12.32	61.41	19 9 39.8	1 35.2	0.231178	14 8
16	20 30 10.91	62.02	19 8 4.6	1 35.4	0.230445	14 6
17	20 29 8.89	−62.54	19 6 29.2	+1 35.7	0.229779	14 5
18	20 28 6.35	63.02	−19 4 53.5	1 36.2	0.229182	14 4
19	20 27 3.33	63.41	19 3 17.3	1 36.8	0.228655	14 3
20	20 25 59.92	63.75	19 1 40.5	1 37.3	0.228198	14 2
21	20 24 56.17	64.04	19 0 3.2	1 38.0	0.227812	14 1
22	20 23 52.13	−64.25	18 58 25.2	+1 38.8	0.227496	14 1
23	20 22 47.88	64.39	−18 56 46.4	1 39.6	0.227251	14 0
24	20 21 43.49	64.47	18 55 6.8	1 40.4	0.227077	14 0
☍ 25	20 20 39.02	64.48	18 53 26.4	1 41.4	0.226975	14 0
26	20 19 34.54	64.44	18 51 45.0	1 42.5	0.226945	13 59
27	20 18 30.10	−64.31	18 50 2.5	+1 43.7	0.226987	13 59
28	20 17 25.79	64.12	−18 48 18.8	1 44.9	0.227101	14 0
29	20 16 21.67	63.86	18 46 33.9	1 46.2	0.227286	14 0
30	20 15 17.81	63.52	18 44 47.7	1 47.4	0.227543	14 1
31	20 14 14.29	63.11	18 43 0.3	1 48.6	0.227871	14 1
Aug. 1	20 13 11.18	−62.65	18 41 11.7	+1 50.0	0.228271	14 2
2	20 12 8.53	62.12	−18 39 21.7	1 51.6	0.228741	14 3
3	20 11 6.41	61.52	18 37 30.1	1 53.0	0.229282	14 4
4	20 10 4.89	60.85	18 35 37.1	1 54.5	0.229892	14 5
5	20 9 4.04	60.12	18 33 42.6	1 56.0	0.230572	14 6
6	20 8 3.92	−59.32	18 31 46.6	+1 57.7	0.231319	14 8
7	20 7 4.60	58.44	−18 29 48.9	1 59.2	0.232132	14 10
8	20 6 6.16	57.52	18 27 49.7	2 0.8	0.233012	14 11
9	20 5 8.64	56.52	18 25 48.9	2 2.4	0.233958	14 13
10	20 4 12.12	55.46	18 23 46.5	2 4.0	0.234968	14 15
11	20 3 16.66	−54.34	18 21 42.5	+2 5.7	0.236042	14 17
12	20 2 22.32	53.18	−18 19 36.8	2 7.3	0.237178	14 20
13	20 1 29.14		18 17 29.5		0.238376	14 22

Opp. in AR. Juli 25 Größe = 12.0

P. Neugebauer.

(76) FREIA 1899.

12h Mittl. Zeit	AR. h m s	Diff. s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Aberr.-Zt. m s
Aug. 9	22 30 5.51	−35.95	−6 47 1.2	−3 26.7	0.419610	21 48
10	22 29 29.56	36.54	6 50 27.9	3 30.9	0.418620	21 45
11	22 28 53.02	37.10	6 53 58.8	3 34.9	0.417674	21 42
12	22 28 15.92	37.61	6 57 33.7	3 38.7	0.416772	21 40
13	22 27 38.31	−38.10	7 1 12.4	−3 42.4	0.415914	21 37
14	22 27 0.21	38.56	−7 4 54.8	3 45.7	0.415100	21 35
15	22 26 21.65	38.98	7 8 40.5	3 48.9	0.414331	21 32
16	22 25 42.67	39.37	7 12 29.4	3 51.9	0.413608	21 30
17	22 25 3.30	39.72	7 16 21.3	3 54.8	0.412932	21 28
18	22 24 23.58	−40.06	7 20 16.1	−3 57.4	0.412302	21 26
19	22 23 43.52	40.35	−7 24 13.5	3 59.8	0.411718	21 25
20	22 23 3.17	40.61	7 28 13.3	4 2.1	0.411183	21 23
21	22 22 22.56	40.82	7 32 15.4	4 4.1	0.410696	21 22
22	22 21 41.74	41.02	7 36 19.5	4 6.0	0.410257	21 20
23	22 21 0.72	−41.18	7 40 25.5	−4 7.7	0.409866	21 19
24	22 20 19.54	41.30	−7 44 33.2	4 9.1	0.409524	21 18
☍ 25	22 19 38.24	41.38	7 48 42.3	4 10.3	0.409231	21 17
26	22 18 56.86	41.43	7 52 52.6	4 11.3	0.408988	21 17
27	22 18 15.43	41.44	7 57 3.9	4 12.0	0.408793	21 16
28	22 17 33.99	−41.41	8 1 15.9	−4 12.6	0.408648	21 16
29	22 16 52.58	41.34	−8 5 28.5	4 12.9	0.408553	21 15
30	22 16 11.24	41.24	8 9 41.4	4 13.0	0.408507	21 15
31	22 15 30.00	41.09	8 13 54.4	4 12.8	0.408512	21 15
Sept. 1	22 14 48.91	40.90	8 18 7.2	4 12.5	0.408567	21 15
2	22 14 8.01	−40.68	8 22 19.7	−4 11.9	0.408671	21 16
3	22 13 27.33	40.41	−8 26 31.6	4 11.0	0.408825	21 16
4	22 12 46.92	40.11	8 30 42.6	4 9.8	0.409027	21 17
5	22 12 6.81	39.77	8 34 52.4	4 8.6	0.409279	21 17
6	22 11 27.04	39.40	8 39 1.0	4 7.0	0.409579	21 18
7	22 10 47.64	−38.97	8 43 8.0	−4 5.3	0.409927	21 19
8	22 10 8.67	38.50	−8 47 13.3	4 3.4	0.410324	21 20
9	22 9 30.17	38.02	8 51 16.7	4 1.1	0.410768	21 22
10	22 8 52.15	37.50	8 55 17.8	3 58.8	0.411259	21 23
11	22 8 14.65	36.95	8 59 16.6	3 56.3	0.411796	21 25
12	22 7 37.70	−36.36	9 3 12.9	−3 53.5	0.412379	21 27
13	22 7 1.34	35.74	−9 7 6.4	3 50.4	0.413008	21 28
14	22 6 25.60		9 10 56.8		0.413681	21 30

Opp. in AR. Aug. 25 Gröfse = 12.2

P. Neugebauer.

(121) HERMIONE 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Aug. 22	23 25 22.99	−35.76	−15 56 50.7	−5 19.6	0.303360	16 41
23	23 24 47.23	36.55	16 2 10.3	5 18.3	0.302566	16 39
24	23 24 10.68	37.30	16 7 28.6	5 16.8	0.301825	16 37
25	23 23 33.38	38.02	16 12 45.4	5 15.1	0.301140	16 36
26	23 22 55.36	−38.68	16 18 0.5	−5 12.8	0.300511	16 34
27	23 22 16.68	39.31	−16 23 13.3	5 10.2	0.299938	16 33
28	23 21 37.37	39.91	16 28 23.5	5 7.2	0.299422	16 32
29	23 20 57.46	40.44	16 33 30.7	5 3.9	0.298965	16 31
30	23 20 17.02	40.94	16 38 34.6	5 0.2	0.298566	16 30
31	23 19 36.08	−41.38	16 43 34.8	−4 56.1	0.298225	16 29
Sept. 1	23 18 54.70	41.80	−16 48 30.9	4 51.6	0.297943	16 29
2	23 18 12.90	42.15	16 53 22.5	4 46.8	0.297721	16 28
3	23 17 30.75	42.44	16 58 9.3	4 41.6	0.297559	16 28
4	23 16 48.31	42.69	17 2 50.9	4 36.2	0.297457	16 27
5	23 16 5.62	−42.88	17 7 27.1	−4 30.2	0.297415	16 27
6	23 15 22.74	43.04	−17 11 57.3	4 23.9	0.297433	16 28
7	23 14 39.70	43.12	17 16 21.2	4 17.5	0.297512	16 28
8	23 13 56.58	43.16	17 20 38.7	4 10.7	0.297650	16 28
☍ 9	23 13 13.42	43.15	17 24 49.4	4 3.5	0.297848	16 28
10	23 12 30.27	−43.09	17 28 52.9	−3 56.0	0.298106	16 29
11	23 11 47.18	42.98	−17 32 48.9	3 48.4	0.298424	16 30
12	23 11 4.20	42.80	17 36 37.3	3 40.6	0.298800	16 30
13	23 10 21.40	42.58	17 40 17.9	3 32.3	0.299234	16 31
14	23 9 38.82	42.32	17 43 50.2	3 23.9	0.299727	16 33
15	23 8 56.50	−42.01	17 47 14.1	−3 15.4	0.300278	16 34
16	23 8 14.49	41.64	−17 50 29.5	3 6.7	0.300886	16 35
17	23 7 32.85	41.24	17 53 36.2	2 57.8	0.301550	16 37
18	23 6 51.61	40.78	17 56 34.0	2 48.6	0.302269	16 38
19	23 6 10.83	40.28	17 59 22.6	2 39.4	0.303044	16 40
20	23 5 30.55	−39.75	18 2 2.0	−2 30.0	0.303873	16 42
21	23 4 50.80	39.17	−18 4 32.0	2 20.5	0.304756	16 44
22	23 4 11.63	38.53	18 6 52.5	2 10.8	0.305692	16 46
23	23 3 33.10	37.87	18 9 3.3	2 1.0	0.306680	16 49
24	23 2 55.23	37.17	18 11 4.3	1 51.1	0.307719	16 51
25	23 2 18.06	−36.41	18 12 55.4	−1 41.1	0.308810	16 54
26	23 1 41.65	35.62	−18 14 36.5	1 30.9	0.309951	16 56
27	23 1 6.03		18 16 7.4		0.311140	16 59

Opp. in AR. Sept. 9 Gröſse = 10.5

V. Neugebauer.

(56) MELETE 1899.

12h Mittl. Zeit	AR. h m s	Diff. s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Aberr.-Zt. m s
Sept. 12	0 53 2.04	−37.87	+8 12 23.0	−8 7.7	0.122119	11 0
13	0 52 24.17	38.97	8 4 15.3	8 17.7	0.121317	10 58
14	0 51 45.20	40.03	7 55 57.6	8 27.2	0.120589	10 57
15	0 51 5.17	41.04	7 47 30.4	8 36.1	0.119936	10 56
16	0 50 24.13	−41.99	7 38 54.3	−8 44.7	0.119359	10 55
17	0 49 42.14	42.87	+7 30 9.6	8 52.8	0.118860	10 54
18	0 48 59.27	43.69	7 21 16.8	9 0.4	0.118440	10 54
19	0 48 15.58	44.46	7 12 16.4	9 7.4	0.118099	10 53
20	0 47 31.12	45.16	7 3 9.0	9 14.0	0.117839	10 53
21	0 46 45.96	−45.79	6 53 55.0	−9 19.9	0.117661	10 53
22	0 46 0.17	46.36	+6 44 35.1	9 25.4	0.117566	10 52
23	0 45 13.81	46.87	6 35 9.7	9 30.2	0.117555	10 52
24	0 44 26.94	47.31	6 25 39.5	9 34.5	0.117628	10 52
25	0 43 39.63	47.67	6 16 5.0	9 38.1	0.117786	10 53
26	0 42 51.96	−47.96	6 6 26.9	−9 41.1	0.118031	10 53
27	0 42 4.00	48.17	+5 56 45.8	9 43.5	0.118362	10 54
28	0 41 15.83	48.31	5 47 2.3	9 45.2	0.118780	10 54
29	0 40 27.52	48.38	5 37 17.1	9 46.3	0.119285	10 55
30	0 39 39.14	48.37	5 27 30.8	9 46.6	0.119877	10 56
Oct. 1	0 38 50.77	−48.28	5 17 44.2	−9 46.4	0.120557	10 57
2	0 38 2.49	48.12	+5 7 57.8	9 45.5	0.121323	10 58
☍ 3	0 37 14.37	47.89	4 58 12.3	9 43.8	0.122177	10 59
4	0 36 26.48	47.57	4 48 28.5	9 41.6	0.123117	11 1
5	0 35 38.91	47.19	4 38 46.9	9 38.7	0.124143	11 2
6	0 34 51.72	−46.73	4 29 8.2	−9 35.1	0.125253	11 4
7	0 34 4.99	46.21	+4 19 33.1	9 30.9	0.126448	11 6
8	0 33 18.78	45.61	4 10 2.2	9 26.1	0.127727	11 8
9	0 32 33.17	44.94	4 0 36.1	9 20.8	0.129089	11 10
10	0 31 48.23	44.21	3 51 15.3	9 14.8	0.130531	11 12
11	0 31 4.02	−43.42	3 42 0.5	−9 8.2	0.132053	11 15
12	0 30 20.60	42.58	+3 32 52.3	9 1.2	0.133654	11 17
13	0 29 38.02	41.67	3 23 51.1	8 53.6	0.135332	11 20
14	0 28 56.35	40.71	3 14 57.5	8 45.5	0.137085	11 22
15	0 28 15.64	39.71	3 6 12.0	8 37.1	0.138912	11 25
16	0 27 35.93	−38.66	2 57 34.9	−8 28.1	0.140811	11 28
17	0 26 57.27	37.56	+2 49 6.8	8 18.8	0.142781	11 31
18	0 26 19.71		2 40 48.0		0.144819	11 35

Opp. in AR. Oct. 3 Größe = 10.6

R. Luther.

(345) TERCIDINA 1899.

12ʰ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Oct. 8	2 13 40.31	−43.51	+15 8 44.9	−9 2.7	0.104645	10 33
9	2 12 56.80	44.68	14 59 42.2	9 12.9	0.103115	10 31
10	2 12 12.12	45.77	14 50 29.3	9 22.7	0.101663	10 29
11	2 11 26.35	46.79	14 41 6.6	9 31.9	0.100291	10 27
12	2 10 39.56	−47.75	14 31 34.7	−9 40.7	0.099001	10 25
13	2 9 51.81	48.64	+14 21 54.0	9 49.1	0.097794	10 24
14	2 9 3.17	49.45	14 12 4.9	9 56.9	0.096671	10 22
15	2 8 13.72	50.20	14 2 8.0	10 4.2	0.095634	10 20
16	2 7 23.52	50.86	13 52 3.8	10 10.9	0.094684	10 19
17	2 6 32.66	−51.45	13 41 52.9	−10 17.0	0.093823	10 18
18	2 5 41.21	51.97	+13 31 35.9	10 22.7	0.093052	10 17
19	2 4 49.24	52.41	13 21 13.2	10 27.6	0.092371	10 16
20	2 3 56.83	52.77	13 10 45.6	10 31.9	0.091781	10 15
21	2 3 4.06	53.05	13 0 13.7	10 35.6	0.091283	10 14
22	2 2 11.01	−53.25	12 49 38.1	−10 38.7	0.090879	10 14
23	2 1 17.76	53.36	+12 38 59.4	10 40.9	0.090569	10 13
24	2 0 24.40	53.40	12 28 18.5	10 42.6	0.090353	10 13
☍ 25	1 59 31.00	53.35	12 17 35.9	10 43.6	0.090232	10 13
26	1 58 37.65	53.21	12 6 52.3	10 43.8	0.090205	10 13
27	1 57 44.44	−52.99	11 56 8.5	−10 43.3	0.090274	10 13
28	1 56 51.45	52.68	+11 45 25.2	10 42.1	0.090438	10 13
29	1 55 58.77	52.29	11 34 43.1	10 40.1	0.090697	10 13
30	1 55 6.48	51.81	11 24 3.0	10 37.5	0.091051	10 14
31	1 54 14.67	51.24	11 13 25.5	10 34.0	0.091499	10 15
Nov. 1	1 53 23.43	−50.60	11 2 51.5	−10 29.9	0.092040	10 15
2	1 52 32.83	49.88	+10 52 21.6	10 25.1	0.092675	10 16
3	1 51 42.95	49.07	10 41 56.5	10 19.6	0.093402	10 17
4	1 50 53.88	48.19	10 31 36.9	10 13.3	0.094219	10 18
5	1 50 5.69	47.22	10 21 23.6	10 6.5	0.095126	10 20
6	1 49 18.47	−46.20	10 11 17.1	−9 58.9	0.096122	10 21
7	1 48 32.27	45.10	+10 1 18.2	9 50.7	0.097204	10 23
8	1 47 47.17	43.94	9 51 27.5	9 42.1	0.098371	10 24
9	1 47 3.23	42.70	9 41 45.4	9 32.8	0.099622	10 26
10	1 46 20.53	41.43	9 32 12.6	9 23.0	0.100954	10 28
11	1 45 39.10	−40.09	9 22 49.6	−9 12.6	0.102366	10 30
12	1 44 59.01	38.71	+ 9 13 37.0	9 1.9	0.103856	10 32
13	1 44 20.30		9 4 35.1		0.105422	10 35

Opp. in AR. Oct. 25 Gröfse = 11.0

Viaro.

(31) EUPHROSYNE 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Oct. 24	2h 58m 6s.80	−69s.50	+25° 48′ 40″.7	+7′ 36″.7	0.217324	13m 41s
25	2 56 57.30	70.72	25 56 17.4	7 29.2	0.215978	13 38
26	2 55 46.58	71.87	26 3 46.6	7 21.7	0.214703	13 36
27	2 54 34.71	72.95	26 11 8.3	7 14.0	0.213500	13 34
28	2 53 21.76	−73.95	26 18 22.3	+7 5.9	0.212370	13 32
29	2 52 7.81	74.86	+26 25 28.2	6 57.7	0.211314	13 30
30	2 50 52.95	75.70	26 32 25.9	6 49.3	0.210334	13 28
31	2 49 37.25	76.45	26 39 15.2	6 40.7	0.209430	13 26
Nov. 1	2 48 20.80	77.13	26 45 55.9	6 31.9	0.208604	13 25
2	2 47 3.67	−77.70	26 52 27.8	+6 23.1	0.207856	13 23
3	2 45 45.97	78.19	+26 58 50.9	6 14.0	0.207187	13 22
4	2 44 27.78	78.58	27 5 4.9	6 4.9	0.206597	13 21
☍ 5	2 43 9.20	78.88	27 11 9.8	5 55.7	0.206088	13 20
6	2 41 50.32	79.08	27 17 5.5	5 46.6	0.205659	13 19
7	2 40 31.24	−79.19	27 22 52.1	+5 37.4	0.205311	13 19
8	2 39 12.05	79.20	+27 28 29.5	5 28.3	0.205043	13 18
9	2 37 52.85	79.12	27 33 57.8	5 19.1	0.204856	13 18
10	2 36 33.73	78.94	27 39 16.9	5 9.9	0.204750	13 18
11	2 35 14.79	78.67	27 44 26.8	5 0.8	0.204724	13 18
12	2 33 56.12	−78.32	27 49 27.6	+4 51.9	0.204777	13 18
13	2 32 37.80	77.86	+27 54 19.5	4 43.0	0.204910	13 18
14	2 31 19.94	77.32	27 59 2.5	4 34.3	0.205122	13 18
15	2 30 2.62	76.70	28 3 36.8	4 25.7	0.205412	13 19
16	2 28 45.92	75.99	28 8 2.5	4 17.2	0.205779	13 19
17	2 27 29.93	−75.20	28 12 19.7	+4 8.9	0.206223	13 20
18	2 26 14.73	74.32	+28 16 28.6	4 0.9	0.206743	13 21
19	2 25 0.41	73.36	28 20 29.5	3 53.0	0.207339	13 22
20	2 23 47.05	72.32	28 24 22.5	3 45.5	0.208009	13 24
21	2 22 34.73	71.20	28 28 8.0	3 38.1	0.208751	13 25
22	2 21 23.53	−70.00	28 31 46.1	+3 30.9	0.209566	13 27
23	2 20 13.53	68.73	+28 35 17.0	3 24.1	0.210451	13 28
24	2 19 4.80	67.40	28 38 41.1	3 17.5	0.211406	13 30
25	2 17 57.40	65.98	28 41 58.6	3 11.3	0.212429	13 32
26	2 16 51.42	64.51	28 45 9.9	3 5.3	0.213519	13 34
27	2 15 46.91	−62.97	28 48 15.2	+2 59.8	0.214675	13 36
28	2 14 43.94	61.36	+28 51 15.0	2 54.6	0.215895	13 38
29	2 13 42.58		28 54 9.6		0.217178	13 41

Opp. in AR. Nov. 5   Gröſse = 9.9

Berberich.

(198) AMPELLA 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Oct. 25	3h 16m 2s.87	−51.86	+30° 56′ 24″.3	−5 55.3	0.033994	8m 58s
26	3 15 11.01	53.11	30 50 29.0	6 12.5	0.033167	8 57
27	3 14 17.90	54.28	30 44 16.5	6 29.6	0.032426	8 56
28	3 13 23.62	55.33	30 37 46.9	6 46.4	0.031772	8 56
29	3 12 28.29	−56.29	30 31 0.5	−7 3.0	0.031208	8 55
30	3 11 32.00	57.13	+30 23 57.5	7 19.2	0.030735	8 54
31	3 10 34.87	57.87	30 16 38.3	7 35.3	0.030355	8 54
Nov. 1	3 9 37.00	58.49	30 9 3.0	7 50.8	0.030069	8 54
2	3 8 38.51	58.99	30 1 12.2	8 5.8	0.029879	8 53
3	3 7 39.52	−59.37	29 53 6.4	−8 20.4	0.029787	8 53
4	3 6 40.15	59.64	+29 44 46.0	8 34.3	0.029792	8 53
5	3 5 40.51	59.78	29 36 11.7	8 47.7	0.029895	8 53
6	3 4 40.73	59.80	29 27 24.0	9 0.5	0.030097	8 53
7	3 3 40.93	59.70	29 18 23.5	9 12.6	0.030399	8 54
8	3 2 41.23	−59.48	29 9 10.9	−9 24.1	0.030800	8 54
☍ 9	3 1 41.75	59.16	+28 59 46.8	9 34.9	0.031302	8 55
10	3 0 42.59	58.73	28 50 11.9	9 45.0	0.031904	8 56
11	2 59 43.86	58.20	28 40 26.9	9 54.4	0.032606	8 57
12	2 58 45.66	57.55	28 30 32.5	10 3.0	0.033408	8 58
13	2 57 48.11	−56.82	28 20 29.5	−10 10.8	0.034309	8 59
14	2 56 51.29	55.98	+28 10 18.7	10 17.7	0.035308	9 0
15	2 55 55.31	55.07	28 0 1.0	10 23.9	0.036404	9 1
16	2 55 0.24	54.05	27 49 37.1	10 29.2	0.037597	9 3
17	2 54 6.19	52.95	27 39 7.9	10 33.9	0.038885	9 4
18	2 53 13.24	−51.77	27 28 34.0	−10 37.8	0.040269	9 6
19	2 52 21.47	50.51	+27 17 56.2	10 40.6	0.041747	9 8
20	2 51 30.96	49.16	27 7 15.6	10 43.0	0.043317	9 10
21	2 50 41.80	47.77	26 56 32.6	10 44.3	0.044978	9 12
22	2 49 54.03	46.30	26 45 48.3	10 44.8	0.046729	9 14
23	2 49 7.73	−44.77	26 35 3.5	−10 44.7	0.048569	9 17
24	2 48 22.96	43.13	+26 24 18.8	10 43.6	0.050495	9 19
25	2 47 39.83	41.47	26 13 35.2	10 41.9	0.052505	9 22
26	2 46 58.36	39.76	26 2 53.3	10 39.4	0.054598	9 24
27	2 46 18.60	38.00	25 52 13.9	10 36.1	0.056773	9 27
28	2 45 40.60	−36.18	25 41 37.8	−10 32.2	0.059027	9 30
29	2 45 4.42	34.32	+25 31 5.6	10 27.8	0.061358	9 33
30	2 44 30.10		25 20 37.8		0.063763	9 36

Opp. in AR. Nov. 9 Größe = 10.0

P. Neugebauer.

(153) HILDA 1899.

12ʰ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Nov. 7	4 14 58.98	−36.24	+19 2 39.7	−2 45.6	0.537691	28 37
8	4 14 22.74	36.69	18 59 54.1	2 46.9	0.537190	28 35
9	4 13 46.05	37.11	18 57 7.2	2 48.0	0.536726	28 33
10	4 13 8.94	37.52	18 54 19.2	2 49.0	0.536299	28 31
11	4 12 31.42	−37.92	18 51 30.2	−2 49.9	0.535910	28 30
12	4 11 53.50	38.27	+18 48 40.3	2 50.6	0.535558	28 28
13	4 11 15.23	38.57	18 45 49.7	2 51.4	0.535244	28 27
14	4 10 36.66	38.85	18 42 58.3	2 52.2	0.534968	28 26
15	4 9 57.81	39.10	18 40 6.1	2 52.8	0.534732	28 25
16	4 9 18.71	−39.32	18 37 13.3	−2 53.2	0.534534	28 24
17	4 8 39.39	39.51	+18 34 20.1	2 53.6	0.534376	28 24
18	4 7 59.88	39.67	18 31 26.5	2 54.0	0.534257	28 23
19	4 7 20.21	39.80	18 28 32.5	2 54.1	0.534178	28 23
20	4 6 40.41	39.90	18 25 38.4	2 54.1	0.534138	28 23
21	4 6 0.51	−39.97	18 22 44.3	−2 54.1	0.534137	28 23
22	4 5 20.54	40.00	+18 19 50.2	2 54.0	0.534177	28 23
23	4 4 40.54	40.00	18 16 56.2	2 53.8	0.534257	28 23
☍ 24	4 4 0.54	39.98	18 14 2.4	2 53.4	0.534377	28 24
25	4 3 20.56	39.92	18 11 9.0	2 53.0	0.534537	28 24
26	4 2 40.64	−39.82	18 8 16.0	−2 52.3	0.534737	28 25
27	4 2 0.82	39.69	+18 5 23.7	2 51.6	0.534978	28 26
28	4 1 21.13	39.53	18 2 32.1	2 50.9	0.535258	28 27
29	4 0 41.60	39.34	17 59 41.2	2 49.9	0.535579	28 29
30	4 0 2.26	39.11	17 56 51.3	2 48.9	0.535939	28 30
Dec. 1	3 59 23.15	−38.86	17 54 2.4	−2 47.8	0.536339	28 32
2	3 58 44.29	38.56	+17 51 14.6	2 46.4	0.536778	28 33
3	3 58 5.73	38.23	17 48 28.2	2 45.0	0.537256	28 35
4	3 57 27.50	37.87	17 45 43.2	2 43.6	0.537773	28 37
5	3 56 49.63	37.50	17 42 59.6	2 42.0	0.538329	28 39
6	3 56 12.13	−37.07	17 40 17.6	−2 40.3	0.538923	28 42
7	3 55 35.06	36.62	+17 37 37.3	2 38.4	0.539554	28 44
8	3 54 58.44	36.14	17 34 58.9	2 36.4	0.540222	28 47
9	3 54 22.30	35.65	17 32 22.5	2 34.4	0.540927	28 50
10	3 53 46.65	35.12	17 29 48.1	2 32.3	0.541668	28 53
11	3 53 11.53	−34.56	17 27 15.8	−2 30.1	0.542445	28 56
12	3 52 36.97	34.00	+17 24 45.7	2 27.7	0.543257	28 59
13	3 52 2.97		17 22 18.0		0.544103	29 2

Opp. in AR. Nov. 24 Gröfse = 13.2

P. Neugebauer.

(313) CHALDAEA 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ' "	' "		m s
Nov. 9	4 58 31.20	−35.01	+4 11 52.1	−8 47.2	0.095799	10 21
10	4 57 56.19	36.71	4 3 4.9	8 42.0	0.093588	10 17
11	4 57 19.48	38.38	3 54 22.9	8 35.9	0.091440	10 14
12	4 56 41.10	40.00	3 45 47.0	8 29.5	0.089357	10 11
13	4 56 1.10	−41.59	3 37 17.5	−8 22.5	0.087342	10 9
14	4 55 19.51	43.11	+3 28 55.0	8 14.8	0.085396	10 6
15	4 54 36.40	44.59	3 20 40.2	8 6.7	0.083522	10 4
16	4 53 51.81	46.02	3 12 33.5	7 58.1	0.081721	10 1
17	4 53 5.79	47.40	3 4 35.4	7 48.9	0.079994	9 58
18	4 52 18.39	−48.67	2 56 46.5	−7 39.1	0.078343	9 56
19	4 51 29.72	49.93	+2 49 7.4	7 28.9	0.076770	9 54
20	4 50 39.79	51.11	2 41 38.5	7 18.0	0.075276	9 52
21	4 49 48.68	52.22	2 34 20.5	7 6.6	0.073863	9 50
22	4 48 56.46	53.25	2 27 13.9	6 54.6	0.072532	9 48
23	4 48 3.21	−54.22	2 20 19.3	−6 42.2	0.071285	9 47
24	4 47 8.99	55.10	+2 13 37.1	6 29.1	0.070122	9 45
25	4 46 13.89	55.90	2 7 8.0	6 15.6	0.069046	9 44
26	4 45 17.99	56.62	2 0 52.4	6 1.6	0.068056	9 42
27	4 44 21.37	57.24	1 54 50.8	5 47.0	0.067155	9 41
28	4 43 24.13	−57.77	1 49 3.8	−5 32.1	0.066343	9 40
29	4 42 26.36	58.21	+1 43 31.7	5 16.6	0.065620	9 39
30	4 41 28.15	58.56	1 38 15.1	5 0.8	0.064988	9 38
Dec. 1	4 40 29.59	58.81	1 33 14.3	4 44.5	0.064446	9 37
2	4 39 30.78	58.96	1 28 29.8	4 28.0	0.063995	9 37
☍ 3	4 38 31.82	−59.02	1 24 1.8	−4 11.0	0.063636	9 36
4	4 37 32.80	58.97	+1 19 50.8	3 53.7	0.063368	9 36
5	4 36 33.83	58.83	1 15 57.1	3 36.2	0.063191	9 36
6	4 35 35.00	58.58	1 12 20.9	3 18.4	0.063105	9 36
7	4 34 36.42	58.24	1 9 2.5	3 0.5	0.063110	9 36
8	4 33 38.18	−57.81	1 6 2.0	−2 42.4	0.063204	9 36
9	4 32 40.37	57.28	+1 3 19.6	2 24.1	0.063387	9 36
10	4 31 43.09	56.67	1 0 55.5	2 5.8	0.063658	9 36
11	4 30 46.42	55.97	0 58 49.7	1 47.4	0.064016	9 37
12	4 29 50.45	55.19	0 57 2.3	1 28.9	0.064459	9 38
13	4 28 55.26	−54.32	0 55 33.4	−1 10.4	0.064988	9 38
14	4 28 0.94	53.38	+0 54 23.0	0 51.9	0.065600	9 39
15	4 27 7.56		0 53 31.1		0.066294	9 40

Opp. in AR. Dec. 3 Gröſse = 9.6

Berberich.

(126) VELLEDA 1899.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Nov. 25	5 49 59.84	−55.70	+27 21 12.9	+1 16.2	0.168738	12 14
26	5 49 4.14	57.20	27 22 29.1	1 12.4	0.167605	12 12
27	5 48 6.94	58.62	27 23 41.5	1 8.5	0.166543	12 10
28	5 47 8.32	59.97	27 24 50.0	1 4.3	0.165553	12 9
29	5 46 8.35	−61.24	27 25 54.3	+0 59.9	0.164637	12 7
30	5 45 7.11	62.42	+27 26 54.2	0 55.5	0.163796	12 6
Dec. 1	5 44 4.69	63.52	27 27 49.7	0 50.8	0.163032	12 5
2	5 43 1.17	64.54	27 28 40.5	0 46.0	0.162346	12 3
3	5 41 56.63	65.48	27 29 26.5	0 41.0	0.161739	12 2
4	5 40 51.15	−66.31	27 30 7.5	+0 36.0	0.161213	12 2
5	5 39 44.84	67.06	+27 30 43.5	0 30.9	0.160769	12 1
6	5 38 37.78	67.70	27 31 14.4	0 25.8	0.160407	12 0
7	5 37 30.08	68.25	27 31 40.2	0 20.6	0.160127	12 0
8	5 36 21.83	68.71	27 32 0.8	0 15.3	0.159931	11 59
9	5 35 13.12	−69.07	27 32 16.1	+0 10.0	0.159819	11 59
10	5 34 4.05	69.34	+27 32 26.1	+0 4.7	0.159791	11 59
11	5 32 54.71	69.50	27 32 30.8	−0 0.6	0.159848	11 59
12	5 31 45.21	69.58	27 32 30.2	0 5.9	0.159989	11 59
13	5 30 35.63	69.55	27 32 24.3	0 11.1	0.160215	12 0
☍ 14	5 29 26.08	−69.43	27 32 13.2	−0 16.2	0.160525	12 0
15	5 28 16.65	69.22	+27 31 57.0	0 21.3	0.160920	12 1
16	5 27 7.43	68.92	27 31 35.7	0 26.4	0.161399	12 2
17	5 25 58.51	68.53	27 31 9.3	0 31.3	0.161962	12 3
18	5 24 49.98	68.05	27 30 38.0	0 36.0	0.162609	12 4
19	5 23 41.93	−67.48	27 30 2.0	−0 40.6	0.163338	12 5
20	5 22 34.45	66.81	+27 29 21.4	0 45.1	0.164149	12 6
21	5 21 27.64	66.06	27 28 36.3	0 49.5	0.165042	12 8
22	5 20 21.58	65.23	27 27 46.8	0 53.6	0.166016	12 10
23	5 19 16.35	64.31	27 26 53.2	0 57.7	0.167069	12 11
24	5 18 12.04	−63.30	27 25 55.5	−1 1.5	0.168201	12 13
25	5 17 8.74	62.22	+27 24 54.0	1 5.2	0.169411	12 15
26	5 16 6.52	61.07	27 23 48.8	1 8.6	0.170697	12 17
27	5 15 5.45	59.83	27 22 40.2	1 11.8	0.172059	12 20
28	5 14 5.62	58.52	27 21 28.4	1 14.8	0.173494	12 22
29	5 13 7.10	−57.14	27 20 13.6	−1 17.5	0.175002	12 25
30	5 12 9.96	55.68	+27 18 56.1	1 19.9	0.176581	12 28
31	5 11 14.28		27 17 36.2		0.178229	12 30

Opp. in AR. Dec. 14 Gröfse = 11.5

v. d. Groeben.

(42) ISIS 1899 – 1900.

12h Mittl. Zeit	AR. (h m s)	Diff. (s)	Decl. (° ′ ″)	Diff. (′ ″)	Log. Δ	Aberr.-Zt. (m s)
1899 Nov. 27	5 50 19.72	−60.25	+22 18 40.0	+2 37.6	0.225649	13 57
28	5 49 19.47	61.41	22 21 17.6	2 37.2	0.224928	13 56
29	5 48 18.06	62.51	22 23 54.8	2 36.6	0.224276	13 54
30	5 47 15.55	63.53	22 26 31.4	2 35.8	0.223695	13 53
Dec. 1	5 46 12.02	−64.47	22 29 7.2	+2 34.8	0.223186	13 52
2	5 45 7.55	65.34	+22 31 42.0	2 33.8	0.222749	13 51
3	5 44 2.21	66.14	22 34 15.8	2 32.6	0.222385	13 51
4	5 42 56.07	66.86	22 36 48.4	2 31.2	0.222096	13 50
5	5 41 49.21	67.48	22 39 19.6	2 29.8	0.221882	13 50
6	5 40 41.73	−68.03	22 41 49.4	+2 28.2	0.221744	13 49
7	5 39 33.70	68.50	+22 44 17.6	2 26.6	0.221682	13 49
8	5 38 25.20	68.89	22 46 44.2	2 25.0	0.221698	13 49
9	5 37 16.31	69.19	22 49 9.2	2 23.2	0.221790	13 49
10	5 36 7.12	69.41	22 51 32.4	2 21.3	0.221960	13 50
11	5 34 57.71	−69.54	22 53 53.7	+2 19.3	0.222209	13 50
12	5 33 48.17	69.61	+22 56 13.0	2 17.3	0.222535	13 51
13	5 32 38.56	69.58	22 58 30.3	2 15.3	0.222939	13 52
14	5 31 28.98	69.48	23 0 45.6	2 13.3	0.223419	13 53
☍ 15	5 30 19.50	69.29	23 2 58.9	2 11.2	0.223976	13 54
16	5 29 10.21	−69.03	23 5 10.1	+2 9.0	0.224610	13 55
17	5 28 1.18	68.68	+23 7 19.1	2 6.9	0.225321	13 56
18	5 26 52.50	68.27	23 9 26.0	2 4.8	0.226107	13 58
19	5 25 44.23	67.77	23 11 30.8	2 2.8	0.226968	14 0
20	5 24 36.46	67.20	23 13 33.6	2 0.6	0.227904	14 1
21	5 23 29.26	−66.55	23 15 34.2	+1 58.6	0.228914	14 3
22	5 22 22.71	65.84	+23 17 32.8	1 56.5	0.229997	14 5
23	5 21 16.87	65.03	23 19 29.3	1 54.6	0.231152	14 8
24	5 20 11.84	64.17	23 21 23.9	1 52.7	0.232378	14 10
25	5 19 7.67	63.24	23 23 16.6	1 50.8	0.233675	14 13
26	5 18 4.43	−62.23	23 25 7.4	+1 48.9	0.235041	14 15
27	5 17 2.20	61.15	+23 26 56.3	1 47.0	0.236475	14 18
28	5 16 1.05	60.02	23 28 43.3	1 45.4	0.237976	14 21
29	5 15 1.03	58.83	23 30 28.7	1 43.8	0.239542	14 24
30	5 14 2.20	57.57	23 32 12.5	1 42.3	0.241172	14 27
31	5 13 4.63	−56.24	23 33 54.8	+1 40.8	0.242864	14 31
1900 Jan. 1	5 12 8.39	54.86	+23 35 35.6	1 39.6	0.244617	14 34
2	5 11 13.53		23 37 15.2		0.246430	14 38

Opp. in AR. 1899 Dec. 15 Gröſse = 10.9

P. Neugebauer.

(184) DEJOPEJA 1899—1900.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	″		m s
1899 Dec. 11	6 45 30.12	−45.78	+24 30 57.9	+51.6	0.347142	18 27
12	6 44 44.34	46.67	24 31 49.5	50.9	0.346086	18 24
13	6 43 57.67	47.52	24 32 40.4	50.2	0.345082	18 21
14	6 43 10.15	48.32	24 33 30.6	49.4	0.344131	18 19
15	6 42 21.83	−49.07	24 34 20.0	+48.4	0.343233	18 17
16	6 41 32.76	49.78	+24 35 8.4	47.4	0.342389	18 15
17	6 40 42.98	50.45	24 35 55.8	46.3	0.341601	18 13
18	6 39 52.53	51.06	24 36 42.1	45.1	0.340869	18 11
19	6 39 1.47	51.61	24 37 27.2	43.8	0.340194	18 10
20	6 38 9.86	−52.12	24 38 11.0	+42.5	0.339576	18 9
21	6 37 17.74	52.58	+24 38 53.5	41.0	0.339016	18 7
22	6 36 25.16	52.97	24 39 34.5	39.5	0.338516	18 5
23	6 35 32.19	53.32	24 40 14.0	37.9	0.338074	18 4
24	6 34 38.87	53.60	24 40 51.9	36.2	0.337692	18 3
25	6 33 45.27	−53.82	-24 41 28.1	+34.4	0.337370	18 2
26	6 32 51.45	54.00	+24 42 2.5	32.7	0.337109	18 1
27	6 31 57.45	54.11	24 42 35.2	30.8	0.336908	18 1
☍ 28	6 31 3.34	54.15	24 43 6.0	28.9	0.336767	18 1
29	6 30 9.19	54.13	24 43 34.9	26.9	0.336687	18 1
30	6 29 15.06	−54.05	24 44 1.8	+25.0	0.336669	18 1
Dec. 31	6 28 21.01	53.91	+24 44 26.8	22.9	0.336712	18 1
1900 Jan. 1	6 27 27.10	53.71	24 44 49.7	20.9	0.336815	18 1
2	6 26 33.39	53.44	24 45 10.6	18.8	0.336980	18 2
3	6 25 39.95	53.10	24 45 29.4	16.8	0.337205	18 3
4	6 24 46.85	−52.72	24 45 46.2	+14.7	0.337491	18 3
5	6 23 54.13	52.28	+24 46 0.9	12.6	0.337836	18 4
6	6 23 1.85	51.76	24 46 13.5	10.5	0.338240	18 5
7	6 22 10.09	51.20	24 46 24.0	8.5	0.338703	18 6
8	6 21 18.89	50.59	24 46 32.5	6.5	0.339225	18 7
9	6 20 28.30	−49.93	24 46 39.0	+ 4.4	0.339804	18 8
10	6 19 38.37	49.20	+24 46 43.4	2.5	0.340439	18 10
11	6 18 49.17	48.44	24 46 45.9	+ 0.6	0.341129	18 11
12	6 18 0.73	47.63	24 46 46.5	− 1.2	0.341874	18 13
13	6 17 13.10	46.77	24 46 45.3	3.1	0.342674	18 15
14	6 16 26.33	−45.85	24 46 42.2	− 4.9	0.343527	18 18
15	6 15 40.48	44.91	+24 46 37.3	6.6	0.344433	18 20
16	6 14 55.57		24 46 30.7		0.345391	18 23

Opp. in AR. 1899 Dec. 28 Gröſse = 12.4

V. Neugebauer.

(148) GALLIA 1899—1900.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
1899 Dec. 31	8h 0m 32.41s	−48.56s	−1° 28′ 7.2″	+7′ 46.0″	0.219584	13m 45s
1900 Jan. 1	7 59 43.85	49.41	1 20 21.2	8 2.9	0.218702	13 44
2	7 58 54.44	50.22	1 12 18.3	8 19.7	0.217885	13 42
3	7 58 4.22	50.96	1 3 58.6	8 36.1	0.217134	13 40
4	7 57 13.26	−51.63	0 55 22.5	+8 52.0	0.216450	13 39
5	7 56 21.63	52.24	−0 46 30.5	9 7.9	0.215834	13 38
6	7 55 29.39	52.78	0 37 22.6	9 23.4	0.215287	13 37
7	7 54 36.61	53.26	0 27 59.2	9 38.6	0.214811	13 36
8	7 53 43.35	53.68	0 18 20.6	9 53.2	0.214407	13 36
9	7 52 49.67	−54.02	−0 8 27.4	+10 7.9	0.214075	13 35
10	7 51 55.65	54.31	+0 1 40.5	10 22.2	0.213815	13 34
11	7 51 1.34	54.51	0 12 2.7	10 36.0	0.213629	13 34
12	7 50 6.83	54.66	0 22 38.7	10 49.2	0.213518	13 34
13	7 49 12.17	54.74	0 33 27.9	11 2.0	0.213481	13 34
14	7 48 17.43	−54.76	0 44 29.9	+11 14.6	0.213518	13 34
☍ 15	7 47 22.67	54.70	+0 55 44.5	11 26.4	0.213631	13 34
16	7 46 27.97	54.58	1 7 10.9	11 37.9	0.213820	13 35
17	7 45 33.39	54.39	1 18 48.8	11 48.9	0.214085	13 35
18	7 44 39.00	54.14	1 30 37.7	11 59.4	0.214426	13 36
19	7 43 44.86	−53.83	1 42 37.1	+12 9.4	0.214843	13 36
20	7 42 51.03	53.44	+1 54 46.5	12 18.7	0.215336	13 37
21	7 41 57.59	53.00	2 7 5.2	12 27.6	0.215904	13 38
22	7 41 4.59	52.48	2 19 32.8	12 36.0	0.216549	13 40
23	7 40 12.11	51.91	2 32 8.8	12 43.8	0.217269	13 41
24	7 39 20.20	−51.27	2 44 52.6	+12 50.8	0.218065	13 42
25	7 38 28.93	50.56	+2 57 43.4	12 57.5	0.218934	13 44
26	7 37 38.37	49.78	3 10 40.9	13 3.5	0.219877	13 46
27	7 36 48.59	48.96	3 23 44.4	13 8.9	0.220894	13 48
28	7 35 59.63	48.08	3 36 53.3	13 13.8	0.221983	13 50
29	7 35 11.55	−47.13	3 50 7.1	+13 18.0	0.223143	13 52
30	7 34 24.42	46.11	+4 3 25.1	13 21.6	0.224374	13 55
31	7 33 38.31	45.04	4 16 46.7	13 24.7	0.225676	13 57
Febr. 1	7 32 53.27	43.94	4 30 11.4	13 27.2	0.227047	14 0
2	7 32 9.33	42.79	4 43 38.6	13 29.0	0.228483	14 2
3	7 31 26.54	−41.57	4 57 7.6	+13 30.0	0.229985	14 5
4	7 30 44.97	40.31	+5 10 37.6	13 30.4	0.231552	14 8
5	7 30 4.66		5 24 8.0		0.233182	14 12

Opp. in AR. 1900 Jan. 15   Gröfse = 10.6

V. Neugebauer.

(199) BYBLIS 1899—1900.

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
1899 Dec. 31	8 19 17.88	−43.58	+28 53 55.4	+6 2.5	0.426415	22 9
1900 Jan. 1	8 18 34.30	44.49	28 59 57.9	6 1.5	0.425442	22 6
2	8 17 49.81	45.35	29 5 59.4	6 0.2	0.424515	22 3
3	8 17 4.46	46.19	29 11 59.6	5 58.6	0.423635	22 0
4	8 16 18.27	−46.97	29 17 58.2	+5 56.8	0.422802	21 58
5	8 15 31.30	47.71	+29 23 55.0	5 54.7	0.422017	21 55
6	8 14 43.59	48.41	29 29 49.7	5 52.3	0.421280	21 53
7	8 13 55.18	49.07	29 35 42.0	5 49.5	0.420592	21 51
8	8 13 6.11	49.68	29 41 31.5	5 46.4	0.419954	21 49
9	8 12 16.43	−50.25	29 47 17.9	+5 43.2	0.419366	21 47
10	8 11 26.18	50.79	+29 53 1.1	5 39.9	0.418827	21 46
11	8 10 35.39	51.27	29 58 41.0	5 36.2	0.418339	21 44
12	8 9 44.12	51.70	30 4 17.2	5 32.2	0.417902	21 43
13	8 8 52.42	52.08	30 9 49.4	5 28.0	0.417516	21 42
14	8 8 0.34	−52.42	30 15 17.4	+5 23.5	0.417181	21 41
15	8 7 7.92	52.71	+30 20 40.9	5 18.8	0.416898	21 40
16	8 6 15.21	52.94	30 25 59.7	5 13.8	0.416667	21 39
17	8 5 22.27	53.14	30 31 13.5	5 8.7	0.416487	21 39
☍ 18	8 4 29.13	53.27	30 36 22.2	5 3.4	0.416359	21 38
19	8 3 35.86	−53.35	30 41 25.6	+4 57.8	0.416283	21 38
20	8 2 42.51	53.39	+30 46 23.4	4 52.2	0.416259	21 38
21	8 1 49.12	53.37	30 51 15.6	4 46.3	0.416286	21 38
22	8 0 55.75	53.32	30 56 1.9	4 40.1	0.416365	21 38
23	8 0 2.43	53.21	31 0 42.0	4 33.9	0.416496	21 39
24	7 59 9.22	−53.03	31 5 15.9	+4 27.6	0.416678	21 39
25	7 58 16.19	52.79	+31 9 43.5	4 21.0	0.416910	21 40
26	7 57 23.40	52.48	31 14 4.5	4 14.3	0.417193	21 41
27	7 56 30.92	52.15	31 18 18.8	4 7.5	0.417527	21 42
28	7 55 38.77	51.77	31 22 26.3	4 0.6	0.417911	21 43
29	7 54 47.00	−51.34	31 26 26.9	+3 53.5	0.418344	21 44
30	7 53 55.66	50.88	+31 30 20.4	3 46.4	0.418826	21 46
31	7 53 4.78	50.34	31 34 6.8	3 39.2	0.419356	21 47
Febr. 1	7 52 14.44	49.76	31 37 46.0	3 32.0	0.419935	21 49
2	7 51 24.68	49.10	31 41 18.0	3 24.7	0.420561	21 51
3	7 50 35.58	−48.38	31 44 42.7	+3 17.4	0.421232	21 53
4	7 49 47.20	47.64	+31 48 0.1	3 10.0	0.421949	21 55
5	7 48 59.56		31 51 10.1		0.422711	21 58

Opp. in AR. 1900 Jan. 18 Gröfse = 13.1

V. Neugebauer.

(7) IRIS 1899 — 1900.

12h Mittl. Zeit		AR. h m s	Diff. s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Aberr.-Zt. m s
1899 Juli	9	0 41 28.41	+81.10	+11 35 2.1	+11 27.9	0.22583	13 57
	10	0 42 49.51	80.48	11 46 30.0	11 24.1	0.22265	13 51
	11	0 44 9.99	79.84	11 57 54.1	11 20.2	0.21945	13 45
	12	0 45 29.83	79.18	12 9 14.3	11 16.2	0.21623	13 39
	13	0 46 49.01	+78.51	12 20 30.5	+11 12.2	0.21300	13 33
	14	0 48 7.52	77.83	+12 31 42.7	11 8.1	0.20975	13 27
	15	0 49 25.35	77.12	12 42 50.8	11 3.8	0.20649	13 21
	16	0 50 42.47	76.41	12 53 54.6	10 59.5	0.20322	13 15
	17	0 51 58.88	75.68	13 4 54.1	10 55.1	0.19993	13 9
	18	0 53 14.56	+74.93	13 15 49.2	+10 50.7	0.19663	13 3
	19	0 54 29.49	74.17	+13 26 39.9	10 46.0	0.19332	12 57
	20	0 55 43.66	73.38	13 37 25.9	10 41.3	0.18999	12 51
	21	0 56 57.04	72.57	13 48 7.2	10 36.5	0.18664	12 45
	22	0 58 9.61	71.75	13 58 43.7	10 31.5	0.18328	12 39
	23	0 59 21.36	+70.90	14 9 15.2	+10 26.5	0.17991	12 33
	24	1 0 32.26	70.03	+14 19 41.7	10 21.2	0.17653	12 27
	25	1 1 42.29	69.15	14 30 2.9	10 15.9	0.17312	12 22
	26	1 2 51.44	68.23	14 40 18.8	10 10.3	0.16970	12 16
	27	1 3 59.67	67.29	14 50 29.1	10 4.7	0.16627	12 10
	28	1 5 6.96	+66.31	15 0 33.8	+ 9 58.8	0.16283	12 4
	29	1 6 13.27	65.31	+15 10 32.6	9 52.8	0.15938	11 59
	30	1 7 18.58	64.28	15 20 25.4	9 46.6	0.15592	11 53
	31	1 8 22.86	63.22	15 30 12.0	9 40.2	0.15244	11 47
Aug.	1	1 9 26.08	62.13	15 39 52.2	9 33.7	0.14895	11 41
	2	1 10 28.21	+61.03	15 49 25.9	+ 9 27.0	0.14545	11 36
	3	1 11 29.24	59.89	+15 58 52.9	9 20.1	0.14195	11 30
	4	1 12 29.13	58.73	16 8 13.0	9 13.1	0.13844	11 25
	5	1 13 27.86	57.54	16 17 26.1	9 6.0	0.13492	11 19
	6	1 14 25.40	56.33	16 26 32.1	8 58.7	0.13138	11 14
	7	1 15 21.73	+55.09	16 35 30.8	+ 8 51.2	0.12783	11 8
	8	1 16 16.82	53.82	+16 44 22.0	8 43.5	0.12428	11 3
	9	1 17 10.64	52.53	16 53 5.5	8 35.6	0.12072	10 57
	10	1 18 3.17	51.21	17 1 41.1	8 27.6	0.11716	10 52
	11	1 18 54.38	49.86	17 10 8.7	8 19.3	0.11359	10 46
	12	1 19 44.24	+48.49	17 18 28.0	+ 8 10.9	0.11002	10 41
	13	1 20 32.73	47.09	+17 26 38.9	8 2.4	0.10644	10 36
	14	1 21 19.82	45.66	17 34 41.3	7 53.6	0.10286	10 31
	15	1 22 5.48	44.22	17 42 34.9	7 44.6	0.09928	10 26
	16	1 22 49.70	42.74	17 50 19.5	7 35.5	0.09569	10 21
	17	1 23 32.44		17 57 55.0		0.09210	10 15

(7) IRIS 1899 — 1900. (Fortsetzung.)

12h Mittl. Zeit		AR. h m s	Diff. s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Aberr.-Zt. m s
1899 Aug.	16	1 22 49.70	+42.74	+17 50 19.5	+7 35.5	0.09569	10 21
	17	1 23 32.44	41.23	17 57 55.0	7 26.2	0.09210	10 15
	18	1 24 13.67	39.70	18 5 21.2	7 16.6	0.08852	10 10
	19	1 24 53.37	38.14	18 12 37.8	7 6.8	0.08494	10 5
	20	1 25 31.51	+36.55	18 19 44.6	+6 56.6	0.08136	10 0
	21	1 26 8.06	34.92	+18 26 41.2	6 46.3	0.07778	9 55
	22	1 26 42.98	33.28	18 33 27.5	6 35.7	0.07421	9 50
	23	1 27 16.26	31.60	18 40 3.2	6 24.8	0.07064	9 45
	24	1 27 47.86	29.88	18 46 28.0	6 13.8	0.06707	9 40
	25	1 28 17.74	+28.14	18 52 41.8	+6 2.4	0.06351	9 35
	26	1 28 45.88	26.36	+18 58 44.2	5 50.8	0.05995	9 31
	27	1 29 12.24	24.54	19 4 35.0	5 38.8	0.05640	9 26
	28	1 29 36.78	22.71	19 10 13.8	5 26.6	0.05287	9 22
	29	1 29 59.49	20.84	19 15 40.4	5 14.1	0.04935	9 17
	30	1 30 20.33	+18.96	19 20 54.5	+5 1.2	0.04585	9 13
	31	1 30 39.29	17.03	+19 25 55.7	4 48.1	0.04236	9 8
Sept.	1	1 30 56.32	15.09	19 30 43.8	4 34.6	0.03889	9 4
	2	1 31 11.41	13.14	19 35 18.4	4 20.9	0.03543	9 0
	3	1 31 24.55	11.17	19 39 39.3	4 6.9	0.03200	8 56
	4	1 31 35.72	+ 9.19	19 43 46.2	+3 52.6	0.02859	8 51
	5	1 31 44.91	7.20	+19 47 38.8	3 38.0	0.02520	8 47
	6	1 31 52.11	5.21	19 51 16.8	3 23.3	0.02184	8 43
	7	1 31 57.32	3.20	19 54 40.1	3 8.2	0.01851	8 39
	8	1 32 0.52	+ 1.19	19 57 48.3	2 52.8	0.01521	8 35
	9	1 32 1.71	− 0.82	20 0 41.1	+2 37.2	0.01194	8 31
	10	1 32 0.89	2.82	+20 3 18.3	2 21.2	0.00871	8 27
	11	1 31 58.07	4.82	20 5 39.5	2 5.0	0.00552	8 24
	12	1 31 53.25	6.82	20 7 44.5	1 48.7	0.00236	8 20
	13	1 31 46.43	8.80	20 9 33.2	1 32.0	9.99925	8 17
	14	1 31 37.63	−10.77	20 11 5.2	+1 15.2	9.99618	8 13
	15	1 31 26.86	12.73	+20 12 20.4	0 58.2	9.99316	8 10
	16	1 31 14.13	14.68	20 13 18.6	0 40.9	9.99018	8 6
	17	1 30 59.45	16.60	20 13 59.5	0 23.4	9.98725	8 3
	18	1 30 42.85	18.50	20 14 22.9	+0 5.8	9.98438	8 0
	19	1 30 24.35	−20.38	20 14 28.7	−0 12.2	9.98156	7 57
	20	1 30 3.97	22.23	+20 14 16.5	0 30.3	9.97880	7 54
	21	1 29 41.74	24.05	20 13 46.2	0 48.7	9.97610	7 51
	22	1 29 17.69	25.85	20 12 57.5	1 7.2	9.97346	7 48
	23	1 28 51.84	27.61	20 11 50.3	1 25.8	9.97089	7 45
	24	1 28 24.23		20 10 24.5		9.96839	7 42

(7) IRIS 1899 — 1900. (Fortsetzung.)

12h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
1899 Sept. 23	1 28 51.84	−27.61	+20 11 50.3	−1 25.8	9.97089	7 45
24	1 28 24.23	29.33	20 10 24.5	1 44.5	9.96839	7 42
25	1 27 54.90	30.98	20 8 40.0	2 3.3	9.96595	7 40
26	1 27 23.92	32.59	20 6 36.7	2 22.2	9.96359	7 37
27	1 26 51.33	−34.15	20 4 14.5	−2 41.0	9.96130	7 35
28	1 26 17.18	35.64	+20 1 33.5	2 59.8	9.95909	7 33
29	1 25 41.54	37.06	19 58 33.7	3 18.4	9.95697	7 31
30	1 25 4.48	38.40	19 55 15.3	3 36.9	9.95493	7 29
Oct. 1	1 24 26.08	39.65	19 51 38.4	3 55.2	9.95297	7 27
2	1 23 46.43	−40.83	19 47 43.2	−4 13.3	9.95110	7 25
3	1 23 5.60	41.92	+19 43 29.9	4 31.3	9.94932	7 23
4	1 22 23.68	42.93	19 38 58.6	4 48.9	9.94763	7 21
5	1 21 40.75	43.83	19 34 9.7	5 6.2	9.94605	7 20
6	1 20 56.92	44.63	19 29 3.5	5 23.1	9.94456	7 18
7	1 20 12.29	−45.33	19 23 40.4	−5 39.7	9.94317	7 17
8	1 19 26.96	45.93	+19 18 0.7	5 55.9	9.94189	7 15
9	1 18 41.03	46.43	19 12 4.8	6 11.5	9.94071	7 14
10	1 17 54.60	46.80	19 5 53.3	6 26.5	9.93963	7 13
11	1 17 7.80	47.07	18 59 26.8	6 40.9	9.93866	7 12
12	1 16 20.73	−47.24	18 52 45.9	−6 54.8	9.93780	7 11
☍ 13	1 15 33.49	47.30	+18 45 51.1	7 8.0	9.93704	7 11
14	1 14 46.19	47.26	18 38 43.1	7 20.4	9.93639	7 10
15	1 13 58.93	47.12	18 31 22.7	7 32.2	9.93585	7 10
16	1 13 11.81	46.88	18 23 50.5	7 43.3	9.93542	7 9
17	1 12 24.93	−46.54	18 16 7.2	−7 53.8	9.93510	7 9
18	1 11 38.39	46.10	+18 8 13.4	8 3.4	9.93490	7 9
19	1 10 52.29	45.56	18 0 10.0	8 12.2	9.93480	7 9
20	1 10 6.73	44.92	17 51 57.8	8 20.3	9.93481	7 9
21	1 9 21.81	44.17	17 43 37.5	8 27.5	9.93493	7 9
22	1 8 37.64	−43.34	17 35 10.0	−8 33.8	9.93516	7 9
23	1 7 54.30	42.41	+17 26 36.2	8 39.4	9.93551	7 9
24	1 7 11.89	41.38	17 17 56.8	8 44.1	9.93597	7 9
25	1 6 30.51	40.26	17 9 12.7	8 47.9	9.93653	7 10
26	1 5 50.25	39.06	17 0 24.8	8 50.8	9.93720	7 11
27	1 5 11.19	−37.76	16 51 34.0	−8 52.9	9.93798	7 12
28	1 4 33.43	36.37	+16 42 41.1	8 54.0	9.93886	7 13
29	1 3 57.06	34.91	16 33 47.1	8 54.1	9.93985	7 14
30	1 3 22.15	33.36	16 24 53.0	8 53.4	9.94094	7 15
31	1 2 48.79	31.73	16 15 59.6	8 51.7	9.94213	7 16
Nov. 1	1 2 17.06		16 7 7.9		9.94343	7 17

(7) IRIS 1899 — 1900. (Fortsetzung.)

12h Mittl. Zeit	AR. h m s	Diff. s	Decl. ° ′ ″	Diff. ′ ″	Log. Δ	Aberr.-Zt. m s
1899 Oct. 31	1 2 48.79	−31.73	+16 15 59.6	−8 51.7	9.94213	7 16
Nov. 1	1 2 17.06	30.03	16 7 7.9	8 49.2	9.94343	7 17
2	1 1 47.03	28.26	15 58 18.7	8 45.8	9.94483	7 18
3	1 1 18.77	26.44	15 49 32.9	8 41.5	9.94633	7 19
4	1 0 52.33	−24.55	15 40 51.4	−8 36.5	9.94791	7 21
5	1 0 27.78	22.62	+15 32 14.9	8 30.6	9.94959	7 23
6	1 0 5.16	20.62	15 23 44.3	8 24.0	9.95135	7 25
7	0 59 44.54	18.58	15 15 20.3	8 16.7	9.95320	7 27
8	0 59 25.96	16.50	15 7 3.6	8 8.7	9.95514	7 29
9	0 59 9.46	−14.40	14 58 54.9	−8 0.0	9.95716	7 31
10	0 58 55.06	12.26	+14 50 54.9	7 50.8	9.95925	7 33
11	0 58 42.80	10.09	14 43 4.1	7 40.9	9.96142	7 35
12	0 58 32.71	7.92	14 35 23.2	7 30.5	9.96367	7 38
13	0 58 24.79	5.74	14 27 52.7	7 19.7	9.96599	7 40
14	0 58 19.05	− 3.54	14 20 33.0	−7 8.3	9.96837	7 43
15	0 58 15.51	− 1.33	+14 13 24.7	6 56.6	9.97082	7 45
16	0 58 14.18	+ 0.88	14 6 28.1	6 44.6	9.97333	7 48
17	0 58 15.06	3.08	13 59 43.5	6 32.2	9.97590	7 51
18	0 58 18.14	5.29	13 53 11.3	6 19.5	9.97853	7 54
19	0 58 23.43	+ 7.49	13 46 51.8	−6 6.4	9.98122	7 57
20	0 58 30.92	9.70	+13 40 45.4	5 53.0	9.98397	8 0
21	0 58 40.62	11.91	13 34 52.4	5 39.3	9.98676	8 3
22	0 58 52.53	14.11	13 29 13.1	5 25.4	9.98960	8 6
23	0 59 6.64	16.30	13 23 47.7	5 11.2	9.99249	8 9
24	0 59 22.94	+18.48	13 18 36.5	−4 56.9	9.99542	8 12
25	0 59 41.42	20.66	+13 13 39.6	4 42.5	9.99839	8 15
26	1 0 2.08	22.82	13 8 57.1	4 28.0	0.00141	8 19
27	1 0 24.90	24.97	13 4 29.1	4 13.3	0.00446	8 22
28	1 0 49.87	27.11	13 0 15.8	3 58.6	0.00755	8 26
29	1 1 16.98	+29.22	12 56 17.2	−3 43.8	0.01067	8 30
30	1 1 46.20	31.32	+12 52 33.4	3 28.9	0.01382	8 34
Dec. 1	1 2 17.52	33.41	12 49 4.5	3 14.0	0.01700	8 37
2	1 2 50.93	35.48	12 45 50.5	2 59.1	0.02021	8 41
3	1 3 26.41	37.51	12 42 51.4	2 44.2	0.02344	8 45
4	1 4 3.92	+39.53	12 40 7.2	−2 29.3	0.02669	8 49
5	1 4 43.45	41.52	+12 37 37.9	2 14.5	0.02996	8 53
6	1 5 24.97	43.49	12 35 23.4	1 59.9	0.03326	8 57
7	1 6 8.46	45.42	12 33 23.5	1 45.3	0.03657	9 1
8	1 6 53.88	47.33	12 31 38.2	1 30.8	0.03990	9 6
9	1 7 41.21		12 30 7.4		0.04324	9 10

(7) IRIS 1899—1900. (Fortsetzung.)

12^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
1899 Dec. 8	1 6 53.88	+47.33	+12 31 38.2	−1 30.8	0.03990	9 6
9	1 7 41.21	49.21	12 30 7.4	1 16.6	0.04324	9 10
10	1 8 30.42	51.05	12 28 50.8	1 2.4	0.04660	9 14
11	1 9 21.47	52.86	12 27 48.4	0 48.5	0.04997	9 18
12	1 10 14.33	+54.64	12 26 59.9	−0 34.8	0.05334	9 23
13	1 11 8.97	56.39	+12 26 25.1	0 21.2	0.05672	9 27
14	1 12 5.36	58.10	12 26 3.9	−0 7.9	0.06011	9 32
15	1 13 3.46	59.79	12 25 56.0	+0 5.1	0.06351	9 36
16	1 14 3.25	61.44	12 26 1.1	0 17.9	0.06691	9 41
17	1 15 4.69	+63.05	12 26 19.0	+0 30.6	0.07032	9 45
18	1 16 7.74	64.64	+12 26 49.6	0 43.0	0.07373	9 50
19	1 17 12.38	66.21	12 27 32.6	0 55.2	0.07713	9 54
20	1 18 18.59	67.75	12 28 27.8	1 7.2	0.08054	9 59
21	1 19 26.34	69.27	12 29 35.0	1 19.0	0.08395	10 3
22	1 20 35.61	+70.76	12 30 54.0	+1 30.6	0.08736	10 8
23	1 21 46.37	72.22	+12 32 24.6	1 41.9	0.09077	10 13
24	1 22 58.59	73.67	12 34 6.5	1 53.1	0.09418	10 18
25	1 24 12.26	75.08	12 35 59.6	2 4.1	0.09759	10 23
26	1 25 27.34	76.47	12 38 3.7	2 14.8	0.10099	10 28
27	1 26 43.81	+77.83	12 40 18.5	+2 25.4	0.10438	10 33
28	1 28 1.64	79.17	+12 42 43.9	2 35.7	0.10777	10 38
29	1 29 20.81	80.50	12 45 19.6	2 45.8	0.11115	10 43
30	1 30 41.31	81.80	12 48 5.4	2 55.6	0.11453	10 48
31	1 32 3.11	83.09	12 51 1.0	3 5.1	0.11790	10 53
1900 Jan. 1	1 33 26.20	+84.36	12 54 6.1	+3 14.4	0.12126	10 58
2	1 34 50.56	85.59	+12 57 20.5	3 23.3	0.12462	11 3
3	1 36 16.15	86.81	13 0 43.8	3 32.1	0.12797	11 8
4	1 37 42.96	87.99	13 4 15.9	3 40.6	0.13131	11 13
5	1 39 10.95	89.15	13 7 56.5	3 48.8	0.13464	11 19
6	1 40 40.10	+90.29	13 11 45.3	+3 56.8	0.13796	11 24
7	1 42 10.39	91.39	+13 15 42.1	4 4.4	0.14127	11 29
8	1 43 41.78	92.48	13 19 46.5	4 11.9	0.14456	11 34
9	1 45 14.26	93.54	13 23 58.4	4 19.1	0.14783	11 40
10	1 46 47.80	94.58	13 28 17.5	4 26.0	0.15109	11 45
11	1 48 22.38	+95.60	13 32 43.5	+4 32.6	0.15435	11 50
12	1 49 57.98	96.59	+13 37 16.1	4 39.1	0.15760	11 55
13	1 51 34.57		13 41 55.2		0.16084	12 1

Opp. in AR. 1899 Oct. 13

	Juli 9	Aug. 16	Sept. 23	Oct. 31	Dec. 8	Jan. 13
Größe =	8.4	7.7	7.0	6.8	7.3	8.0

Riem u. Kramer.

NACHWEISUNGEN ÜBER DIE PLANETEN (1) – (436).

Zur genaueren Bezeichnung derjenigen Stellen, an welchen die betreffenden Mittheilungen über die kleinen Planeten sich befinden, sind bei sämmtlichen hier benutzten Zeitschriften, nämlich bei den Astronomischen Nachrichten (A. N.), dem Astronomical Journal (A. J.), dem Bulletin Astronomique (B. A.), den Comptes Rendus (C. R.) die Band- und Seitenzahlen angegeben.

A. Beobachtungen.

Nr. und Name	Beobachtungsort	Datum der Beobachtung		Publication
2 Pallas . . .	Pola (Mer.) . .	1895	Mai 29, Juni 14	A. N. 145. 87
3 Juno . . .	Marseille (Mer.) .	1897	Febr. 16, 17. 18. 22. 23. 24.	
			Febr. 25. 26. 27. März 2. 4,	
			März 5, 6, 8. 9, 11 . . .	B. A. 15. 119
	Pola . . .	1896	Nov. 20	A. N. 144. 279
4 Vesta . . .	Marseille (Mer.) .	1897	Febr. 16, 17, 18. 22, 23. 24.	
			Febr. 25, 26, 27, März 2. 4,	
			März 5. 6. 8. 9	B. A. 15. 120
5 Astraea . .	Besançon . .	»	Juni 23. 24. 25	A. N. 146. 297.
				B. A. 15. 226
6 Hebe . . .	Algier . . .	»	Dec. 16, 24. 27	A. N. 146, 121.
				B. A. 15, 247
	Arcetri . . .	»	Nov. 22, 23	A. N. 146, 59
	Düsseldorf . .	»	Dec. 15	» » 145. 337
	Marseille . .	»	Nov. 17, 18, 19, 20, 22. 24,	
			Nov. 25. 27, 30. Dec. 18 .	B. A. 15, 231
	Padua . . .	»	Nov. 22. 26, 27, 30, Dec. 7,	
			Dec. 22. 24	A. N. 146. 323
	Pola (Mer.) . .	1895	Febr. 20. 21, 23. März 1. 8,	
			März 15. 16, 17, 18. 21 .	» » 145. 83
	Toulouse . .	»	Febr. 13. 18, 19. März 4, 15,	
			März 16, 19_2	B. A. 15. 27
	Washington .	1897	Nov. 19	A. J. 18, 167
	Windsor . .	»	Nov. 28_2, 29_2, 30_2, Dec. 1_2	A. N. 146. 9
7 Iris . . .	Arcetri . . .	»	März 8_2, 9_2, 11 . . .	» » 146. 81
	Berlin . . .	»	Febr. 15, März 3 . . .	» » 147, 225
	Düsseldorf . .	»	Febr. 21, März 5, 10 . .	» » 145, 337
	Pola (Mer.) . .	»	Febr. 22, 23, 25 . . .	» » 146, 183
8 Flora . . .	Pola (Mer.) . .	1895	Mai 26, 28, 29	» » 145, 85
	Toulouse . .	»	Mai 28. 29, 31	B. A. 15. 27
10 Hygiea . .	Toulouse . .	»	Juli 29, Aug. 1, 10, 13, 15,	
			Aug. 16, 17, 19, 20. 21, 22	» » 15. 27

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publication
11 Parthenope .	Algier . . .	1897 Sept. 25. 28. 30	A. N. 145, 93. B. A. 15, 73
	Arcetri . . .	» Sept. 23, 24, 27	A. N. 146, 55
	Berlin . . .	» Oct. 16	» » 147, 225
	Cincinnati . .	» Sept. 20. 21, 22, 25, 28. Oct. 1. 27	A. J. 18, 107
	Düsseldorf . .	» Sept. 25. 29, Oct. 5 . .	A. N. 145. 337
	Marseille . .	» Sept. 25. 29, Oct. 7, 11. 18. Oct. 20. 24. 25. 26, 27. 28. Oct. 29. 30	B. A. 15. 145
	München . .	» Oct. 14_3	A. N. 146, 301
	Padua . . .	» Sept. 23. 25, 30, Oct. 24. Oct. 27, 28	» » 146. 321
	Pola (Mer.) . .	1895 Jan. 25. 27	» » 145, 83
	Pola (Mer.) . .	1897 Sept. 24, 25. 26, 27, 28 .	» » 146, 183
	Toulouse . .	1895 Jan. 18, 21. 26	B. A. 15, 27
	Washington .	1897 Sept. 24. 27. 29	A. J. 18. 167
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12 Victoria . .	Toulouse . .	1895 Jan. 26	B. A. 15. 28
13 Egeria . . .	Toulouse . .	» Sept. 12, 13. 14. 16, 17 .	» » 15. 28
14 Irene . . .	Marseille . .	1897 Juni 18. 19, 21, 22, 23, 24. Juni 25. 26, 28. Juli 5, 6. 7, Juli 9, 10, 15. 16, 17. 19. Juli 21, 22, 23, 24. 29, Juli 30, 31	» » 15, 22
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15 Eunomia . .	Pola (Mer.) . .	1894 Juni 29, Juli 2. 3. 6. 9. 12, 13	» » 145. 81
16 Psyche . .	Ann Arbor .	1897 Febr. 18, 26. 27, März 6. März 7. 10	A. J. 18, 176
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17 Thetis . . .	Algier . . .	1898 Jan. 13_2. 14. 18_2. 19_2 . .	A. N. 146, 123. B. A. 15, 247
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18 Melpomene .	Besançon . .	1897 Mai 31, Juni 1	A. N. 146, 297. B. A. 15, 226
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19 Fortuna . .	Pola (Mer.) . .	» Aug. 25, 26, 28 . . .	» » 145, 83
20 Massalia . .	Marseille . .	1897 Oct. 7, 11, 18, 19, 20, 23, Oct. 24, 25, 26, 27, 28, 29	B. A. 15, 147
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22 Kalliope . .	Toulouse . .	» Juni 15, 20, 21_2, 22, 24_2, Juni 25, 26, 27 . . .	» » 15, 28
24 Themis . .	Arcetri . . .	1897 Jan. 3_2, 4_2, 25_2, 28 . .	A. N. 146, 51
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26 Proserpina .	Düsseldorf . .	1897 Juli 24, 25, Aug. 3, 4 .	A. N. 145, 337
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28 Bellona . .	Düsseldorf . .	» Juni 29, Juli 10, 24, 25, 30	» » 145, 337
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29 Amphitrite .	Pola (Mer.) . .	1895 April 12, 17, 21, Mai 1, 2, Mai 12, 14	» » 145, 85
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30 Urania . .	Pola (Mer.) . .	1894 Juli 26, 27, 28, Aug. 1, 2	A. N. 145, 81
33 Polyhymnia .	Algier . . .	1897 Mai 20_2, 21_2, 26, 28, 29 .	» » 145, 91. B. A. 15, 72
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34 Circe . . .	Düsseldorf . .	» Nov. 25, Dec. 21 . . .	A. N. 145, 337
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37 Fides . . .	Algier . . .	» Juni 9_2, 10_2	A. N. 145, 93. B. A. 15, 72
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37 Fides	München	1897 Juni 23_4, 24_2, 29_3	A. N. 145, 209
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38 Leda	Arcetri	» Febr. 23, 24, 25, März 4	» » 146, 81
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39 Laetitia	Pola (Mer.)	» Jan. 26	» » 146, 185
40 Harmonia	Pola (Mer.)	1895 Nov. 16, 17, 18	» » 145, 87
43 Ariadne	Bethlehem	1897 Oct. 15, 18	A. J. 18, 102
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45 Eugenia	Nizza	1898 Aug. 11*	A. N. 147, 175
46 Hestia	Besançon	1897 Juli 5, 6, 8, 9, 10	» » 146, 297,
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47 Aglaja	Düsseldorf	» Dec. 17, 18, 19	A. N. 145, 339
49 Pales	Toulouse	1895 Sept. 10, 12, 13, 14_2, 16, 17,	
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51 Nemausa	Pola (Mer.)	» Juni 18	A. N. 145, 87
53 Kalypso	Arcetri	1897 Mai 30, 31, Juni 1_2, 2,	
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57 Mnemosyne	Arcetri	» Juni 2, 5, 6, 8, 10_2	» » 146, 55
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58 Concordia	Arcetri	» Aug. 28, 29, 30, 31, Sept. 2_2	» » 146, 85
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61 Danae	Algier	» Dec. 15, 16, 17	» » 146, 121,
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61 Danaë . .	Pola (Mer.) . .	1897 Nov. 30	A. N. 146, 185
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63 Ausonia . .	Pola (Mer.) . .	1895 Juni 18, 22	A. N. 145, 87
65 Cybele . .	Marseille . .	1897 Dec. 29, 31, 1898 Jan. 3, Jan. 4, 11	B. A. 15, 232
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67 Asia . . .	Pola (Mer.) . .	1895 Mai 26, 28, 29	A. N. 145, 85
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68 Leto . . .	Arcetri . . .	1897 Febr. 23, 24, 25	A. N. 146, 51
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70 Panopaea . .	Pola (Mer.) . .	» Mai 26, 29, 30	» » 145, 85
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74 Galatea . .	Arcetri . . .	1897 März 22, 26, 28_2	A. N. 146, 83
77 Frigga . .	Düsseldorf . .	» Oct. 25, 26, 27	» » 145, 339
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78 Diana . .	Arcetri . . .	» April 7, 9, 10_2, 11_2, 12_2, 13_2	» » 146, 51
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80 Sappho . .	Toulouse . .	1895 April 20, 29, 30, Mai 1, 3	B. A. 15, 30
82 Alkmene . .	Cincinnati . .	1898 April 11, 15, 16, 20 . .	A. J. 19, 48
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84 Klio . . .	Arcetri . . .	1897 April 26, 30	A. N. 146, 53
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86 Semele . .	Arcetri . . .	1897 Juni 25_2, 26, 27, 28_2, 29, Juli 1	» » 146, 57
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87 Sylvia . .	Arcetri . . .	1897 Febr. 23, 24, 25	A. N. 146, 51
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89 Julia	Pola (Mer.)	1897 Febr. 27, März 8	A. N. 146, 185
90 Antiope	Arcetri	» Febr. 22, 23, 24, 25	» » 146, 51
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91 Aegina	Pola (Mer.)	1897 Febr. 25, 27, März 8	» » 146, 185
92 Undina	Pola (Mer.)	1895 Juni 27	» » 145, 87
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95 Arethusa	Arcetri	1897 Mai 6	A. N. 146, 53
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96 Aegle	München	» Aug. 24_2	» » 145, 211
100 Hekate	Toulouse	1895 Juli 15, 16_2, 18, 19, 20, Juli 22, 23, 24	B. A. 15, 30
101 Helena	Arcetri	1897 Aug. 25, 26, 27, 28	A. N. 146, 85
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103 Hera	Pola (Mer.)	» Febr. 9, 10	» » 146, 185
104 Klymene	Toulouse	1895 Juni 25, 26_2, 27_2, Juli 16, Juli 23	B. A. 15, 31
106 Dione	Marseille	1897 Dec. 18, 29, 31, 1898 Jan. 3, Jan. 4, 11	» » 15, 232
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108 Hecuba	Arcetri	1897 Jan. 28	A. N. 146, 51
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113 Amalthea	Algier	1897 Mai 20_2, 22_2, 24, 26	» » 145, 91, B. A. 15, 72
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113 Amalthea . .	Vassar Coll. .	1897 Juni 1. 2	A. J. 18, 109
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114 Kassandra .	Nizza . . .	» Juli 28. 29. 30	B. A. 15. 182
115 Thyra . .	Marseille . .	» Oct. 7, 11, 18, 19, 20, 21, Oct. 23, 24, 25, 26, 27, 28, Oct. 29, 30	» » 15. 146
116 Sirona . .	Marseille . .	» Mai 8, 10, 11, 12, 18, 19, Mai 20, 24, 25, 28, 29, 31, Juni 1. 5	» » 15. 23
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118 Peitho . .	Arcetri . . .	» Nov. 22_2, 23_2, 24_2 . . .	A. N. 146. 59
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119 Althaea . .	Nizza . . .	1898 Aug. 13*	» » 147. 175
120 Lachesis . .	Vassar Coll. .	1897 Nov. 23, 24, 27 . . .	A. J. 18. 178
121 Hermione .	Berlin . . .	» Mai 3	A. N. 147. 225
	Marseille . .	» April 5, 8, 9, 26, 28, 29	B. A. 14. 383
	München . .	» März 29, April 7, 12_2, 26, Mai 3_2	A. N. 145. 213
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122 Gerda . .	Rom . . .	» Dec. 22, 23	» » 146. 69
124 Alkeste . .	Nizza . . .	» Juni 23, 24, 25. 26 . .	B. A. 15. 182
130 Elektra . .	Algier . . .	» Juni 2_2, 3, 5_2	A. N. 145. 91. B. A. 15. 72
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131 Vala . . .	Vassar Coll. .	» Nov. 23, 24	» » 18. 178
133 Cyrene . .	Pola (Mer.) . .	1894 Juli 27, 28, Aug. 1 . .	A. N. 145. 81
135 Hertha . .	Pola (Mer.) . .	» Aug. 25, 26, 28 . . .	» » 145. 83
136 Austria . .	Algier . . .	1898 März 14_2, 15_2, 18_2, 19_2 .	B. A. 15. 317
137 Meliboea . .	Besançon . .	1897 Juli 5_2, 6_2, 8_2, 9_2, 10_3, Juli 11_2, 30, 31 . . .	A. N. 146. 297. B. A. 15, 227

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138 Tolosa . .	Düsseldorf . .	» Mai 30	» » 145. 341
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139 Juewa . .	Pola (Mer.) . .	1895 März 15. 16, 17, 18, 21 .	» » 145, 83
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142 Polana . .	Toulouse . .	» Aug. 13. 15, 16	» » 15, 31
144 Vibilia . .	Marseille . .	1897 Aug. 4	» » 15, 144
146 Lucina . .	Düsseldorf . .	» April 5, 22, 23, 25 . .	A. N. 145, 341
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148 Gallia . .	Arcetri . . .	» Mai 18_2, 20, 28_2, 29, 30,	
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151 Abundantia .	Berlin . . .	1896 Nov. 12, 13, 1898 März 20_2	A. N. 147, 225
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153 Hilda . . .	München . .	1897 Juli 24_3. Aug. 1_2 . . .	» » 145, 215
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154 Bertha . .	Pola (Mer.) . .	» April 12	A. N. 145, 85
159 Aemilia . .	Vassar Coll. .	1897 Nov. 24. 27. 29 . . .	A. J. 18, 178
160 Una . . .	Rom . . .	1898 Jan. 14, 15	A. N. 146, 69
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161 Athor . .	Toulouse . .	1895 Aug. 13. 15, 16. 19. 20_2,	
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162 Laurentia . .	Algier . . .	1897 Mai 8_2, 10_2	A. N. 145, 91,
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162 Laurentia . .	Arcetri . . .	1897 April 29, 30	A. N. 146, 53
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164 Eva . . .	Arcetri . . .	1897 April 26_2, 30_2	A. N. 146, 53
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166 Rhodope . .	Wien . . .	» Juni 1, 5	» » 146, 425
168 Sibylla . .	Algier . . .	1898 Febr. 28_2, März 1_2 . .	B. A. 15, 317
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169 Zelia . . .	Besançon . .	1897 Mai 29	A. N. 146, 299, B. A. 15, 227
171 Ophelia . .	Arcetri . . .	» Sept. 25, 27	A. N. 146, 57
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173 Ino . . .	Toulouse . .	1895 Juli 29, Aug. 1_4	» » 15, 32
174 Phaedra . .	München . .	1897 Oct. 17_2, 25_2	A. N. 146, 303
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175 Andromache .	Nizza . . .	1895 Dec. 23	B. A. 14, 475
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176 Idunna . .	Marseille . .	» März 6, 8, 9, 25, 27 . .	B. A. 14, 383
177 Irma . . .	Toulouse . .	1895 Aug. 13, 15, 16, 19, 20, Aug. 21, 22	» » 15, 33
179 Klytaemnestra	Arcetri . . .	1897 Sept. 25, 29	A. N. 146, 87
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181 Eucharis . .	Berlin . . .	1895 April 11, 16, 17 . . .	A. N. 147, 225
182 Elsa . . .	Toulouse . .	» Sept. 13, 14, 16, 17, 18 .	B. A. 15, 33
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201 Penelope . .	Düsseldorf . .	» Oct. 24, 25, 26 . . .	» » 145, 341
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210 Isabella . .	Besançon . .	1897 Nov. 13, 16, 17 . . .	A. N. 146, 299,
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235 Carolina	Arcetri	1897 Sept. 27, 29	» » 146, 87
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240 Vanadis	Arcetri	» Aug. 20, 21, 22_2, 24	» » 146, 85
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242 Kriemhild	Wien	1897 Juni 28, 29	A. N. 146, 425
247 Eukrate	Algier	1898 Jan. 19_2, 25_2, 26_2, 28_2, Febr. 1_2, 2_2	» » 146, 123, B. A. 15, 248
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258 Tyche	Algier	1898 Febr. 28_2, März 1_2	B. A. 15, 317
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261 Prymno	Arcetri	1897 Nov. 22_2, 23_2, 24_2, 26_2	» » 146, 87
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325 Heidelberga .	München . .	1898 März 26, April 8 . . .	» » 147, 273
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326 Tamara . .	Wien . . .	1897 Nov. 25, 26	A. N. 146, 427
332 Siri . . .	Nizza . . .	1896 Jan. 17, 18, 24, März 12 .	B. A. 14, 476
334 Chicago . .	Arcetri . . .	1897 April 25, 26	A. N. 146, 83
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343 Ostara . .	Wien . . .	» Jan. 31, Febr. 3	» » 146, 427
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349 Dembowska .	Arcetri . . .	1897 Nov. 26, 27, 30	» » 146, 87
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	Rom . . .	» Aug. 24, 26, 27, Sept. 22, Oct. 31	» » 146, 67

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416 Vaticana . .	Teramo . .	1897	Oct. 26, Nov. 24, 27, Dec. 14	A. N. 145, 329
420 Bertholda . .	München . .	»	Nov. 3_2, 13_2, 23_2 . . .	» » 146, 305
	Wien . . .	»	Oct. 28, Nov. 23 . .	» » 146, 427
424 [1896 *DF*] .	Nizza . . .	»	Jan. 2, 12, 26	B. A. 15, 183
425 [1896 *DC*] .	Nizza . . .	1896	Dec. 29, 30, 1897 Jan. 4,	
			Jan. 25	» » 15, 182
426 [1897 *DH*] .	Arcetri . . .	1897	Sept. 22_2, 23_2, 24_2, 25, 26,	
			Sept. 27, 28, 29, 30_2 . .	A. N. 146, 89
	Marseille . .	»	Sept. 4	B. A. 15, 145
	München . .	»	Sept. 20_2, 24_2, 26_2, 27_2,	
			Sept. 29_2, 30_3, Oct. 1_2 .	A. N. 145, 89
	Rom . . .	»	Sept. 22, 24	» » 146, 67
	Wien . . .	»	Oct. 29, 30	» » 146, 427
427 [1897 *DJ*] .	Rom . . .	»	Sept. 6	» » 146, 67
	Wien . . .	»	Sept. 27, 29, Oct. 1, 19,	
			Oct. 27	» » 146, 429
428 Monachia . .	Algier . . .	»	Nov. 22_2, 23_2, 24_2, 25_2 .	» » 145, 127,
				C. R. 125, 850
	München . .	»	Nov. 18_3, 19	A. N. 145, 79,
				A. J. 18, 101
	München . .	»	Nov. 25_2, 26_2	A. N. 145, 127
	München . .	»	Nov. 18_3, 19_2, 21_3, 22_2,	
			Nov. 23_2, 30_2, Dec. 14_2,	
			Dec. 16_2, 22	» » 146, 305
	Rom . . .	»	Nov. 22	» » 145, 79
	Rom . . .	»	Nov. 22, 23, 26, 27 . .	» » 146, 69
	Straſsburg . .	1898	Febr. 11_2, 12_2	» » 147, 121
429 [1897 *DL*] .	Marseille . .	1897	Nov. 27, 29, 30 . . .	B. A. 15, 231
	Nizza . . .	»	Nov. 23*	A. N. 145, 79
	Rom . . .	»	Nov. 27, 30	» » 146, 69
	Toulouse . .	»	Nov. 27, 29, 30 . . .	C. R. 125, 922
430 [1897 *DM*] .	Marseille . .	»	Dec. 23, 24	B. A. 15, 232
	Nizza . . .	»	Dec. 18*	A. N. 145, 175
431 [1897 *DN*] .	Nizza . . .	»	Dec. 18*	» » 145, 175
432 [1897 *DO*] .	Nizza . . .	»	Dec. 18*	» » 145, 175
433 Eros . . .	Berlin (Urania) .	1898	Aug. 14	» » 147, 141,
				A. J. 19, 96
	Nizza . . .	»	Aug. 13*	A. N. 147, 175
	Algier . . .	»	Aug. 16, 17, 18 . . .	C. R. 127, 392
	Arcetri . . .	»	Aug. 19_2, 20_2, 21_2, 22_2,	
			Aug. 24_2, 27_2, Sept. 5 .	A. N. 147, 223, 279
	Besançon . .	»	Aug. 17, 18, 19, 20 . .	» » 147, 207
	Besançon . .	»	Aug. 17, 18, 19, 20, 25,	
			Aug. 26, 27	C. R. 127, 393

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publication
433 Eros . . .	Düsseldorf . .	1898 Aug. 21, 22, 26, Sept. 6, Sept. 7	A. N. 147, 175, 207, 253
	Hamburg . .	» Aug. 19, 20, 21 . . .	» » 147, 175
	Hamburg . .	» Sept. 5_2, 6, 7_2, 8, 10 .	» » 147, 223, 253
	Kiel . . .	» Aug. 15_2, 16_2, 19_2, 20_2, Aug. 21, 22	» » 147, 141, 175
	Kiel . . .	» Aug. 26_3, Sept. 7, 10, 12_2, Sept. 13, 15	» » 147, 253, 269
	Paris . . .	» Aug. 18_2, 19_2, 20_2 . .	C. R. 127, 360
	Pola . . .	» Aug. 19, 20, 21, 22, 23, Aug. 24	A. N. 147, 253
	Rom . . .	» Sept. 6, 8	» » 147, 253
	Strafsburg . .	» Sept. 6_2, 7_2, 8, 9, 10_2, Sept. 13_2, 14, 15_2, 16_2, Sept. 17_2	» » 147, 281
	Toulouse . .	» Aug. 16, 17, 19, 20 . .	C. R. 127, 382
	Wien . . .	» Aug. 18_2, 19, 21, 22, 23_2	A. N. 147, 175, 207
434 Hungaria . .	Heidelberg . .	» Sept. 11*	» » 147, 255
	Rom . . .	» Sept. 13, 15, 16 . . .	» » 147, 283
435 [1898 *DS*] .	Heidelberg . .	» Sept. 11*	» » 147, 255
	Rom . . .	» Sept. 15, 16	» » 147, 283
	Wien . . .	» Sept. 16	» » 147, 283
436 [1898 *DT*] .	Heidelberg . .	» Sept. 13*, 15*	» » 147, 271
1896 *DD* .	Nizza . . .	1897 Jan. 2, 12	B. A. 15, 183
1896 *DE* .	Nizza . . .	» Jan. 2, 4, 12	» » 15, 183
1898 *DP* .	Nizza . . .	1898 Juli 18	A. N. 147, 31, A. J. 19, 80
	Nizza . . .	» Juli 16*, Aug. 9* . . .	A. N. 147, 175
	Rom . . .	» Juli 20	» » 147, 31

Die mit einem Sternchen (*) bezeichneten Daten beziehen sich auf nur genäherte Positionsangaben.

B. Berechnungen.

(Bei den mit einem Sternchen (*) bezeichneten Ephemeriden sind die Planeten-Oerter ausführlicher angegeben.)

Nr. und Name	Ort der Publication	Gegenstand der Publication
7 Iris . . .	A. N. 146, 47 .	Ephemeride.
24 Themis . .	» » 146, 15 .	Ephemeride*.
29 Amphitrite .	» » 145, 109 .	Ephemeride*.
122 Gerda . .	» » 145, 31 .	Elemente, Ephemeride.
126 Velleda . .	» » 146, 191 .	Elemente, Ephemeride*.
184 Dejopeja . .	» » 145, 241 .	Absolute Bahnelemente.
188 Menippe . .	B. A. 15, 41 . .	Provisorische Elemente.
194 Prokne . .	A. J. 18, 111 . .	Elemente.
219 Thusnelda .	A. N. 147, 219 .	Ephemeride.
247 Eukrate . .	A. J. 18, 120 . .	Ephemeride*.
286 Iclea . . .	A. N. 146, 141 .	Bemerkung über die Bahnbestimmung.
288 Glauke . .	» » 147, 239 .	Elemente für 1897, 1899, 1900.
324 Bamberga .	» » 146, 45 .	Elemente, Ephemeride.
385 Ilmatar . .	» » 145, 175 .	Ephemeride.
387 [1894 *AZ*] .	A. J. 18, 110 . .	Ephemeride*.
389 [1894 *BB*] .	A. N. 145, 173 .	Elemente, Ephemeride*.
393 [1894 *BG*] .	» » 146, 207 .	Ephemeride.
416 Vaticana . .	B. A. 15, 311 .	Elemente, Ephemeride*.
424 [1896 *DF*] .	A. N. 145, 315 .	Elemente, Ephemeride*.
425 [1896 *DC*] .	B. A. 14, 472 . .	Elemente, Ephemeride*.
426 [1897 *DH*] .	» » 15, 249 . .	Elemente, Ephemeride*.
427 [1897 *DJ*] .	» » 14, 478 . .	Elemente.
	A. N. 144, 383 .	Ephemeride.
428 Monachia . .	» » 145, 109 .	Elemente, Ephemeride.
433 Eros . . .	» » 147, 221 .	Erste Elemente, Ephemeride.
	» » 147, 285 .	Ephemeride.

Erläuterungen zu den Ephemeriden und Tafeln des Jahrbuchs für 1901.

Das Jahrbuch giebt die Oerter der Wandelsterne in zwei Gattungen von Coordinaten an, in Ekliptikal- und Aequatorial-Coordinaten.

Bei den Ekliptikal-Coordinaten ist im allgemeinen als Anfangspunkt der Sonnen-Mittelpunkt angenommen und eine feste Lage der Ekliptik und des Aequinoctiums zu Grunde gelegt.

Bei den Aequatorial-Coordinaten ist als Anfangspunkt der Erd-Mittelpunkt angenommen und die jedesmalige wahre Lage des Aequators und des Aequinoctiums zu Grunde gelegt.

Die Zeitangaben für die im Jahrbuch mitgetheilten Oerter sind überall, wo nicht ausdrücklich eine andere Zeit erwähnt wird, in mittlerer Berliner Sonnen-Zeit ausgedrückt. Die Lage des Berliner Meridians gegen diejenigen Meridiane, auf deren Zeitangaben sich die im Jahrbuch benutzten Sonnen-, Mond- und Planeten-Tafeln begründen, ist nach den neuesten Bestimmungen angenommen:

Berlin östlich von Paris um $44^m\ 13^s.88$,
Berlin östlich von Greenwich um $53^m\ 34^s.91$,
Berlin östlich von Washington (alte Sternw.) um $6^h\ 1^m\ 47^s.00$.

Der Anfang des Tages ist der Mittag; die Zählung der Stunden ist durchgängig bis 24 angenommen worden, so dafs die Stunden unter 12 die Nachmittagsstunden desselben bürgerlichen Tages, die Stunden über 12, wenn man sie um 12 vermindert, die Vormittagsstunden des nächstfolgenden bürgerlichen Tages sind.

Das Jahrbuch enthält aufser den Angaben über die Zeit- und Festrechnung folgende

Hauptabschnitte:

1) Reductions-Elemente.

Die auf Seite 1 gegebene Uebersicht der Reductions-Elemente enthält für die mittleren Mittage von 10 zu 10 Tagen fortschreitend folgende Angaben:

1) Die mittlere Schiefe der Ekliptik, berechnet nach der Angabe von Newcomb (*Tables of the Motion of the Earth,* S. 10), nämlich:

$$\varepsilon = 23^\circ\ 27'\ 8''.26 - 0''.4685\ (t - 1900\ \text{Jan.}\ 0).$$

2) Die scheinbare Schiefe der Ekliptik, entstanden aus der vorhergehenden unter Hinzufügung der Nutation in Schiefe, nämlich:

$$\Delta\varepsilon = +0''.5519 \cos 2\odot + 0''.0092 \cos(\odot + 281^\circ\ 14')$$
$$+ 9''.210 \cos \Omega - 0''.0895 \cos 2\,\Omega.$$

Das kurzperiodische Glied

$$+ 0''.0884 \cos 2\,☾$$

ist hier weggelassen, findet sich aber in der letzten Columne der Sonnen-Ephemeride von Tag zu Tag aufgeführt.

3) Die Praecession in Länge, berechnet mit der Newcomb'schen Praecessions-Constante:

Jährliche Praecession in Länge für 1901: 50″.2566.

4) Die Nutation in Länge, berechnet aus:

$$- 1''.2725 \sin 2 \odot + 0''.1478 \sin (\odot + 81^\circ 56')$$
$$- 17''.2317 \sin \Omega + 0''.2070 \sin 2 \Omega.$$

Die kurzperiodischen Glieder

$$- 0''.2038 \sin 2 ☾ + 0''.0676 \sin (☾ - \Gamma')$$

sind hier weggelassen, finden sich aber in der Sonnen-Ephemeride in der vorletzten Columne von Tag zu Tag aufgeführt.

Die angegebene Nutation entspricht dem Zeichen nach der Reduction von mittlerer Länge auf wahre.

5) Die Aberration der Sonne, mit der von der Pariser Conferenz angenommenen Constanten 20″.47 berechnet.

6) Die Parallaxe der Sonne, mit der von der Pariser Conferenz angenommenen Constanten 8″.80 berechnet.

2) Sonnen-Ephemeride.

Bei der Sonnen-Ephemeride, welche nach den Sonnentafeln von Newcomb (*Astr. Papers* Vol. VI, Part. I) berechnet ist, enthält die linke Seite diejenigen Angaben, welche bei der Beobachtung der Sonne gebraucht werden; ihre Epoche ist der mittlere Berliner Mittag.

Sie enthält aufser dem Datum des Monats und dem Wochentage in sieben neben einander stehenden Columnen:

1) Die Zeitgleichung oder den Unterschied zwischen wahrer und mittlerer Zeit.
2) Die scheinbare Rectascension der Sonne.
3) Die ersten Differenzen dieser Zahlenreihe.
4) Die scheinbare Declination der Sonne.
5) Die ersten Differenzen dieser Zahlenreihe.
6) Die Durchgangs-Dauer der Sonne in Sternzeit.
7) Den scheinbaren Halbmesser der Sonnenscheibe.

Bei der Rectascension und Declination ist die Aberration bereits angebracht, dieselben sind daher direct mit den Beobachtungen vergleichbar.

Gemäfs den Beschlüssen der Pariser Conferenz sind die Nutationsglieder kurzer Periode hier ebenso wie bei den folgenden Planeten-Ephemeriden weggelassen.

Auf der rechten Seite stehen, ebenfalls mit der Epoche des mittleren Berliner Mittags, aufser dem Monats- und Jahrestage in acht Columnen neben einander:

1) Die Sternzeit im mittleren Mittage oder die wahre Rectascension der mittleren Sonne.

2) Die Länge der Sonne bezogen auf die mittlere Ekliptik und das mittlere Aequinoctium 1901.0 (annus fictus).

3) Die ersten Differenzen dieser Zahlenreihe.

4) Die Breite der Sonne bezogen auf die mittlere Ekliptik und das mittlere Aequinoctium 1901.0 (annus fictus).

5) und 6) Der Logarithmus des Radius vector der Sonne mit den Differenzen.

7) und 8) Die von der Mondlänge abhängigen Glieder der Nutation in Länge und Schiefe der Ekliptik, nämlich:

$$d\lambda = -0''.2038 \sin 2☾ + 0''.0676 \sin (☾ - \Gamma')$$
$$d\varepsilon = +0''.0884 \cos 2☾.$$

Die Coordinaten dieser Seite sollen bei Bahnberechnungen und dergleichen dienen, sie sind deshalb frei von Aberration, deren Berücksichtigung nur bei ihrer Anwendung zur Vorausberechnung von Finsternissen erforderlich wäre. Für diesen Fall findet man die Correction, die man von der Länge abziehen mufs, in der vorletzten Columne der Seite 1.

Für die Berechnung des scheinbaren Sonnen-Halbmessers ist nach Professor Auwers 15′ 59″.63 angenommen.

Auf Seite 22—41 folgen die rechtwinkeligen Sonnen-Coordinaten von 12^h zu 12^h mittlerer Zeit, bezogen auf die mittlere Lage des Aequators und Aequinoctiums für den Anfang des *annus fictus* 1901 (1901 Jan. 0.59).

Diese Coordinaten sind bekanntlich mit entgegengesetzten Zeichen die Coordinaten des Erdmittelpunktes gegen den Sonnenmittelpunkt als Ursprung, bezogen auf eine X-Axe, deren positive Richtung in einer durch den Sonnenmittelpunkt parallel der Ebene des Erd-Aequators gelegten Ebene durch die Linie des aufsteigenden Knotens der Erdbahn in dieser heliocentrischen Aequatorial-Ebene bestimmt wird, deren positive Y-Axe in der heliocentrischen Aequatorial-Ebene 90° in der Richtung der Erdbewegung von der X-Axe absteht, und deren positive Z-Axe parallel der Erd-Axe nach der nördlichen Seite gerichtet ist.

Neben den Coordinaten stehen von Tag zu Tag die Reductionen derselben auf das mittlere Aequinoctium des benachbarten Jahrzehnt-Anfanges 1900.0 in Einheiten der letzten Decimale; sie dienen zur bequemen Verbindung der Coordinaten-Angaben aufeinanderfolgender Jahre.

3) Mond-Ephemeride.

Von den die Mond-Ephemeride enthaltenden Seiten 42—81 geben die links liegenden Seiten für mittleren Mittag und Mitternacht:

1) Die scheinbare Rectascension des Mondes mit den Differenzen.

2) Die scheinbare Declination des Mondes mit den Differenzen.

3) Den log. Sinus der Aequatorial-Horizontal-Parallaxe des Mondes mit den Differenzen.

4) Den scheinbaren Halbmesser des Mondes.

Unterhalb dieser Columnen sind die Epochen der Mondphasen angegeben.

Auf den rechts liegenden Seiten befinden sich die Angaben, welche die Meridian-Beobachtungen des Mondes und ihre Reduction unterstützen sollen, sowie nach dem Verzeichnifs des *Nautical Almanac* die genäherten Oerter der sogenannten Mondsterne, deren correspondirende Beobachtung in Verbindung mit dem Monde besonders die Genauigkeit der Längenbestimmungen aus Mondculminationen, sowie auch der Parallaxenbestimmungen aus Zenithdistanzen erhöhen soll.

Die abgekürzte Ortsangabe der Mondsterne, welche für die Aufsuchung derselben hinreicht, wird als genügend betrachtet werden können, wenn man bedenkt, dafs der Hauptzweck der Mondstern-Angaben die Herbeiführung correspondirender Beobachtungen derselben ist, dafs aber bei solchen die Oerter dieser Sterne eliminirt werden, und dafs bei einem Mangel an correspondirenden Beobachtungen entweder eine sehr sorgfältige und selbständige Discussion der für die Mondposition zu Grunde zu legenden Sternörter oder die Beziehung derselben auf die Meridian-Beobachtungen benachbarter Fundamental-Sterne eintreten mufs.

Es enthalten auf diesen Seiten:

Die 1. Columne den Monatstag und die Bezeichnung des oberen oder unteren Berliner Meridian-Durchganges des Mondes durch *O* und *U*.

Die 2. Columne die Mittl. Berl. Zeit des Meridian-Durchganges des Mondes.

Die 3. Columne die Rectascension des Mondes zur Zeit der Culmination.

Die 4. Columne die halbe Durchgangs-Dauer in Sternzeit berechnet mit Hülfe des geocentrischen Halbmessers des Mondes und der stündlichen Bewegung in AR.

Die 5. Columne die stündliche Bewegung in Rectascension incl. der Veränderung des Halbmessers, hier für die besonderen Zwecke nicht auf eine Stunde mittlerer Zeit sondern auf das Zeitintervall bezogen, welches zwischen zwei der Epoche benachbarten Durchgängen des Mondes durch zwei um eine Stunde von einander abstehende Meridiane verfliefst.

Die 6. Columne die Declination des Mondes zur Zeit der Culmination.

Die 7. Columne die stündliche Bewegung in Declination (auf dasselbe Intervall bezogen wie die Bewegung in AR.).

Die 8., 9., 10. Columne die Rectascension, Declination und Gröfse der allgemein angenommenen Mondsterne oder Vergleichsterne des Mondes nach dem *Nautical Almanac.* Bei der Auswahl derselben ist das Princip befolgt, dafs von den jedesmal zu benutzenden 4 Sternen die beiden dem Monde folgenden am folgenden Tage als die beiden vorangehenden beobachtet werden. Es gehören also zu jeder oberen Culmination (Berlin) die 4 aufeinanderfolgenden Sterne, deren erster auf gleicher Linie mit der Angabe des zugehörigen Monatstages steht.

Dieselben Seiten enthalten endlich unterhalb jener Columnen die Epochen des Perigaeums und Apogaeums des Mondes.

Von den Mondörtern ist nur eine geringe Anzahl für die Finsternisse direct nach den *Tables de la lune, construites d'après le principe Newtonien de la gravité universelle par P. A. Hansen*, mit Berücksichtigung von *Newcomb's Corrections to Hansen's Tables of the Moon*, berechnet worden; für die Berechnung der Ephemeride ist dagegen die ausführliche Mond-Ephemeride des *Nautical Almanac* benutzt worden, die der Redaction in Folge Uebereinkommens mit der *Nautical Almanac Office* in den Aushängebogen zur Verfügung stand.

4) Ephemeride für den Mondkrater Mösting A.

Die Ephemeride des Mondkraters Mösting A Seite 82—86 dient nach Vorschlag von Professor Franz zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Meridianbeobachtung des Kraters, zweitens zur Bestimmung der selenographischen Coordinaten weiterer Punkte der Mondoberfläche durch mikrometrischen Anschlufs derselben an Mösting A aufserhalb des Meridians.

Sie gilt für die obere Culmination in Berlin und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die physische Libration, die Unterschiede $\alpha_{☾} - \alpha_k$ in Rectascension und $\delta_{☾} - \delta_k$ in Declination zwischen der Mondmitte und dem Krater vom Erdmittelpunkt aus gesehen mit ihren Differenzen, endlich den Logarithmus des Sinus der Aequatorialhorizontal-Parallaxe p_k des Kraters, welche hier von der des Mondes $p_{☾}$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Meridianbeobachtungen des Kraters interpolire man $\alpha_{☾} - \alpha_k$, $\delta_{☾} - \delta_k$ und $\log \sin p_k$ unter strenger Berücksichtigung der zweiten Differenzen mit dem Argument »Länge des Beobachtungsortes von Berlin« so, dafs westliche Länge positiv, östliche Länge negativ genommen wird. Dann befreie man die beobachtete Declination des Kraters von der Höhenparallaxe, indem man diese in der bekannten

Weise mit dem Argument der wahren Kraterdeclination (nicht Monddeclination), unter Benutzung von p_k, berechnet. Bringt man alsdann $\alpha_☾ - \alpha_k$ und $\delta_☾ - \delta_k$ an die Beobachtung an, so hat man die AR. und Decl. des Mondes, wie sie vom Erdmittelpunkt aus beobachtet wären, für die Beobachtungszeit, d. h. für die Culmination des Kraters (nicht des Mondes).

Für Beobachtungen aufserhalb des Meridians interpolire man $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit dem Argument »westliche Länge von Berlin + westlicher Stundenwinkel des Mondes«. Man findet dann die gesehene, mit Parallaxe behaftete Differenz $\alpha'_☾ - \alpha'_k$ offenbar, indem man die mit $p_☾$ und dem Mondort berechnete Parallaxe $\alpha'_☾ - \alpha_☾$ des Mondes in AR. zu $\alpha_☾ - \alpha_k$ addirt und dann die mit p_k und dem Kraterort berechnete Parallaxe $\alpha'_k - \alpha_k$ des Kraters in AR. subtrahirt. Also

$$\alpha'_☾ - \alpha'_k = \alpha_☾ - \alpha_k + (\alpha'_☾ - \alpha_☾) - (\alpha'_k - \alpha_k) = \alpha_☾ - \alpha_k + \Delta\alpha$$

und ebenso

$$\delta'_☾ - \delta'_k = \delta_☾ - \delta_k + (\delta'_☾ - \delta_☾) - (\delta'_k - \delta_k) = \delta_☾ - \delta_k + \Delta\delta.$$

Man erhält aber die gesuchten kleinen Correctionen $\Delta\alpha$ und $\Delta\delta$, welche stets unterhalb $0^s.7$ und $10''$ bleiben, sicherer aus folgenden Differentialformeln:

$$\Delta\alpha = A_\alpha(\alpha_☾ - \alpha_k) + A_\delta(\delta_☾ - \delta_k) + A_p(1 + 2\,A_\alpha)(p_☾ - p_k)$$
$$\Delta\delta = D_\alpha(\alpha_☾ - \alpha_k) + D_\delta(\delta_☾ - \delta_k) + D_p(1 + 2\,D_\delta)(p_☾ - p_k),$$

wo, wenn wir kurz α, δ, p statt $\alpha_☾$, $\delta_☾$, $p_☾$ schreiben,

$$A_\alpha = \varrho \cos\varphi' \sin p \sec\delta \cos(\alpha - \Theta)$$
$$A_\delta = \varrho \cos\varphi' \sin p \sec\delta \sin(\alpha - \Theta) \operatorname{tg}\delta$$
$$A_p = \varrho \cos\varphi' \cos p \sec\delta \sin(\alpha - \Theta)$$

und

$$D_\alpha = \varrho \sin p \sin(\Theta - \alpha) \cos\varphi' \sin\delta$$
$$D_\delta = \varrho \sin p\,[\cos(\Theta - \alpha)\cos\varphi'\cos\delta + \sin\varphi' \sin\delta]$$
$$D_p = \varrho \cos p\,[\cos(\Theta - \alpha)\cos\varphi'\sin\delta - \sin\varphi' \cos\delta]$$

sind,

oder auch

$$D_\alpha = \varrho \sin p \sin z \sin\eta \sin\delta$$
$$D_\delta = \varrho \sin p \cos z$$
$$D_p = \varrho \cos p \sin z \cos\eta.$$

Hier sind ϱ der Erdradius, φ' die geocentrische Breite, Θ die Sternzeit des Beobachtungsortes, z die geocentrische Zenithdistanz des Mondes und η der zugehörige parallaktische Winkel.

Verbindet man die so erhaltenen scheinbaren Abstände zwischen der Mondmitte und Mösting A mit mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die scheinbare Lage des letzteren gegen die Mondmitte und kann hieraus mit Hilfe von $\alpha'_☾$ und $\delta'_☾$, mit der auf Seite 87 angegebenen Lage des Mond-Aequators

und mit der gleichfalls angegebenen physischen Libration die selenographische Länge und Breite des zweiten Kraters berechnen.

Die Ephemeride ist nach der in den *Astron. Nachrichten* Nr. 3241 § 5 angegebenen Methode mit Benutzung der Mond-Transit-Ephemeride des *Nautical Almanac* berechnet worden.

5) Lage des Mond-Aequators. Mondbewegung.

Die beiden Tafeln auf Seite 87 und 88 dienen neben dem oben angegebenen Zweck zur Berechnung der optischen Libration des Mondes (in Verbindung mit der Tafel auf Seite 364—365) und zur Ermittelung des Winkels C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Declinationskreis bildet. Die Formeln für die Berechnung der Libration sind auf Seite 365 vollständig aufgeführt.

Wird bezeichnet mit

i . . . . die Neigung des Mond-Aequators gegen den Erd-Aequator,
Δ . . . das Stück des Mond-Aequators vom aufsteigenden Knoten im Erd-Aequator bis zum aufsteigenden Knoten in der Ekliptik,
☊′ . . . der aufsteigende Knoten des Mond-Aequators im Erd-Aequator,
☊ . . . der aufsteigende Knoten des Mond-Aequators in der Ekliptik,
α, δ . . Rectascension und Declination des Mittelpunktes der Mondscheibe, gesehen vom Beobachtungsort aus,
l', b' . . die Libration in selenocentrischer Länge und Breite,
l_0 . . . die mittlere Länge des Mondes,
$l = l' + l_0$,
so wird

$$\sin C = -\sin i \frac{\cos(l + \Delta - ☊)}{\cos \delta} = -\sin i \frac{\cos(\alpha - ☊')}{\cos \delta'},$$

wobei C vom nördlichen Theil des Declinationskreises nach Osten positiv gerechnet wird.

Bei der Berechnung von i, Δ, ☊′ ist die Neigung des Mond-Aequators gegen die Ekliptik nach Prof. J. Franz (*Astron. Nachr.* Nr. 2917 und 3241) zu $J = 1° 31' 22''.1$ angenommen worden. Die Angaben sind frei von physischer Libration.

Die in der ersten Columne der Tafel auf Seite 88 aufgeführte Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik dient auch zur Berechnung der Nutationsausdrücke.

6) Auf- und Untergang von Sonne und Mond für Berlin.

Auf Seite 89—93 sind die Zeiten der Auf- und Untergänge von Sonne und Mond für Berlin in mittlerer Berliner Zeit aufgeführt, welche als Grundlage für die Kalender-Rechnungen benachbarter Orte häufig Verwendung finden.

7) Planeten-Ephemeriden.

Von Seite 94—143 folgen die wahren geocentrischen Oerter der Haupt-Planeten. Dieselben sind für Mercur, Venus und Mars von Tag zu Tag, für Jupiter, Saturn, Uranus und Neptun von 2 zu 2 Tagen gegeben. Ueberall sind den mit der Beobachtung zu vergleichenden Angaben die ersten Differenzen beigefügt, die für eine exacte Interpolation zweckmäfsiger erscheinen, als die Angabe der Bewegung in 1^h Länge.

Sämmtliche geocentrische Coordinaten beziehen sich auf die jedesmalige wahre Lage des Aequators und des Aequinoctiums, sind aber frei von der *Aberratio fixarum*, so dafs man bei ihrer Vergleichung mit den Beobachtungen bekanntlich von den Beobachtungszeiten die jedesmalige Aberrations- oder Licht-Zeit abziehen mufs, dann aber mit den so corrigirten Epochen im Jahrbuche diejenigen wahren Richtungen findet, welche mit den beobachteten scheinbaren, nur von Parallaxe befreiten, direct vergleichbar sind. Dieses Verfahren ist bis zu den Grenzen unseres Planetensystems ausreichend genau, da der Maximal-Fehler desselben nahezu $0''.001\,\Delta$ beträgt, also selbst bei Neptun $0''.03$ nicht übersteigt.

Die »Log. Δ« überschriebene Columne giebt den für Berechnung der Licht-Zeit und der Parallaxe erforderlichen Werth des Log. der Entfernung der Planeten vom Erdmittelpunkte in der bekannten Einheit ausgedrückt.

Die vorletzte Columne jeder Seite enthält unter der Bezeichnung »Oestlicher Stundenwinkel« des Planeten einen genäherten Werth für die mittlere Zeit seiner oberen Culmination. Die letzte Columne giebt den halben Tagbogen für die im Berliner Mittag stattfindende Declination. Aus beiden Reihen von Werthen wird man alles Erforderliche für Auf- und Untergang leicht ableiten können.

Als Grundlage für die Berechnung haben neben den Newcomb-schen Sonnentafeln gedient:

für Mercur und Venus die Newcomb'schen Tafeln in *Astronomical Papers*, Vol. VI, Part 2 und 3,

für Mars die Tafeln von Le Verrier in den *Annales de l'Observatoire de Paris*, Vol. VI,

für Jupiter und Saturn die Tafeln von G. W. Hill in *Astronomical Papers*, Vol. VII, Part 1 und 2,

für Uranus und Neptun die Tafeln von Newcomb in *Smithsonian Contributions to Knowledge.*

Die Reductionen auf den wahren Ort sind durchweg mit den im Jahrbuch allgemein angewandten Praecessions- und Nutationsausdrücken berechnet, über welche unten Näheres folgt. Die von der Mondlänge abhängenden Nutationsglieder sind durchweg weggelassen.

Für die Reduction und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnifs der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für	Mercur	Halbmesser	. . . . . .	3″.34
»	Venus	»	. . . . . .	8 .78
»	Mars	»	. . . . . .	4 .68
»	Jupiter	»	(Aequatorial)	99 .8
		»	(Polar) . .	92 .6
»	Saturn	»	(Aequatorial)	81 .4
		»	(Polar) . .	73 .4
»	Uranus	»	. . . . . .	34 .7
»	Neptun	»	. . . . . .	45

8) Heliocentrische Oerter.

Auf die geocentrischen Ephemeriden der Haupt-Planeten folgen Seite 144—148 die heliocentrischen Coordinaten derselben, und zwar der Log. des Radius vector, die Länge in der Bahn und die Reduction auf die Ekliptik, die Breite und bei den Planeten Jupiter, Saturn, Uranus und Neptun noch der Winkel B_0, welchen der Radius vector mit derjenigen Bahnebene macht, für welche die bei jedem Planeten unter den Columnen hinzugefügten Angaben über ☊ und i gelten. (Siehe die ausführlichere Erläuterung im Jahrbuch für 1880 und 1881.)

Da diese heliocentrischen Coordinaten hauptsächlich zur Berechnung der speciellen Störungen dienen sollen, so ist die Genauigkeit und Ausführlichkeit ihrer Angaben dem ihrem Zweck entsprechenden Mafse angepasst worden.

Hinzugefügt sind endlich aufser ☊ und i noch die Angaben betreffend die Masse der Planeten, und zwar:

für Mercur, Venus und (Erde + Mond) nach Newcomb (*Tables of the Sun*, Seite 12),
für Mars nach A. Hall,
für Jupiter nach Newcomb,
für Saturn nach Bessel,
für Uranus und Neptun nach Hill (*Tables of Saturn*, Seite 167).

9) Mittlere Oerter von 622 Fixsternen.

Das Verzeichnifs der mittleren Stern-Oerter für 1901.0 auf Seite 149 bis 166 ist eine ungeänderte Wiedergabe der Auwers'schen Fundamental-Kataloge in Publ. XIV und XVII der Astronomischen Gesellschaft. Auch die Struve'sche Praecessions-Constante, die sonst im Jahrbuch durch die Newcomb'sche ersetzt ist, ist hier zur Ueber-

tragung auf die Epoche 1901.0 beibehalten worden, bez. bei den angegebenen Eigenbewegungen ist diese Constante vorausgesetzt. Diese Mafsregel erschien im Interesse der Continuität erforderlich und wird eingehalten werden bis zur definitiven Annahme des neuen, in der Bearbeitung begriffenen Fundamental-Kataloges von Auwers, von wo an dann das Berliner Jahrbuch sein Fixstern-Verzeichnifs auch über den ganzen südlichen Himmel ausdehnen wird.

Um jedoch schon jetzt in jenen Fällen, wo genauere Oerter wünschenswerth sind, als sie der alte Fundamental-Katalog naturgemäfs bieten kann, den Bedürfnissen der Praxis entgegenzukommen, sind im Anhang I die vorläufigen Verbesserungen des Fundamental-Katalogs aus *Astron. Nachr.* Nr. 3508/09 für 1901.0 abgedruckt und werden auch in den folgenden Jahren gegeben werden. Diese Verbesserungen sind der Redaction in dankenswerthester Weise von Herrn Prof. Auwers zur Verfügung gestellt worden.

Die Uebertragung von 1875.0 auf 1901.0 ist für die Sterne über 70° Decl. durch mechanische Quadratur ausgeführt worden.

Die Angaben für Sirius und Procyon auf Seite 154. 155 sind vermittelst der Elemente IV, bezw. V der citirten Abhandlungen abgeleitet.

10) Scheinbare Oerter von 450 Fixsternen.

Ueber die Auswahl derjenigen Sterne, für welche Ephemeriden scheinbarer Oerter gegeben werden, ist das Jahrbuch für 1883 einzusehen.

Die scheinbaren Oerter der Sterne (Seite 167—307) sind für die neun weniger als 10° vom Pol entfernten Sterne von Tag zu Tag, für die übrigen 441 Sterne von 10 zu 10 Tagen angegeben und beziehen sich auf die Epoche derjenigen oberen Culmination im Berliner Meridian, welche an dem nebenstehenden wahren Sonnentage stattfindet. Der Uebergang einer Culmination auf den vorangehenden wahren Sonnentag ist dadurch bezeichnet, dafs das Datum des Tages, an welchem zwei obere Culminationen stattfinden, vor den Rectascensionen aufgeführt ist.

Am Fufs der Ephemeride für jeden Stern ist der mittlere Ort desselben für den Anfang des Jahres wieder angegeben, aufser bei den Polarsternen, für welche an dieser Stelle der Betrag der täglichen Aberration in Rectascension für die Culminationszeit steht. Hierbei liegt der auch auf Seite 312 angegebene Zahlenwerth $0^s.0214$ zu Grunde.

Bei den von 10 zu 10 Tagen fortschreitenden Ephemeriden sind die scheinbaren Oerter auf $0^s.01$ in Rectascension und $0''.1$ in Declination angesetzt, und es ist dabei erstrebt worden, in der Berechnung beider Coordinaten die Fehlergrenze von $0^s.005$, beziehungsweise $0''.05$ nicht merklich zu überschreiten. Die kurzperiodischen Mondglieder der Nutation sind bei der Berechnung weggelassen worden und müssen in den Fällen,

wo ihre Mitnahme wünschenswerth erscheint, nach den Formeln auf Seite 312 und mit Hülfe der Tafel auf Seite 324 u. 325 besonders berechnet werden.

Bei den von Tag zu Tag berechneten scheinbaren Oertern der neun dem Pole nächsten Sterne sind, im Einklange mit der Bedeutung der Hunderttheile der Zeitsecunde für die Rectascensionen dieser Sterne, die Declinationen auf Hunderttheile der Bogensecunde angegeben; bei diesen Sternen sind auch die kurzperiodischen Mondglieder der Nutation angebracht, mit Ausnahme von f'.

Die der Berechnung der scheinbaren Oerter zu Grunde gelegten Constanten der Praecession, Nutation und Aberration entsprechen den Beschlüssen der Pariser Conferenz und sind aus der Formelübersicht Seite 312 zu ersehen. Man sehe hierüber auch den nächsten Abschnitt ein.

Der Betrag der jährlichen Parallaxe ist bei folgenden drei Sternen, bei denen dieselbe ansehnlich und ihrem Werthe nach hinreichend verbürgt ist, nämlich bei

α Canis maj.	mit	der	Parallaxe	0″.38
α Lyrae	»	»	»	0 .18
61 Cygni	»	»	»	0 .51

bereits berücksichtigt.

Als Ergänzung der Sammlung scheinbarer Stern-Oerter dienen die Bessel'schen Constanten a, b, c, d, a', b', c', d' (Seite 308—311) für diejenigen 172 Sterne, von welchen keine Ephemeriden berechnet sind. Es ist zu diesen Constanten, deren Anwendung aus den auf Seite 312 gegebenen Formeln erhellt, nur noch zu bemerken, daſs die Einheit bei a, b, c, d die Zeitsecunde ist.

11) Reductions-Tafeln.

Auf die scheinbaren Oerter der Sterne folgt Seite 312 eine Zusammenstellung der Formeln, nach welchen die Reductions-Constanten der darauf folgenden Tafeln berechnet sind. Hierbei sind die Praecessions-Gröſsen nach Newcomb, die Nutations-Constante 9″.21 und die Aberrations-Constante 20″.47 gemäſs den Beschlüssen der Pariser Conferenz zu Grunde gelegt.

Für den Gebrauch der Reductions-Tafel für die Sterntage 1901 (Seite 313) ist erläuternd hinzuzufügen, daſs derjenige absolute Moment, in welchem die mittlere Sonnenlänge 280° oder die Rectascension der mittleren Sonne = $18^h\ 40^m$ ist, als die Anfangsepoche des astronomischen annus fictus und als der bequeme Ausgangspunkt der Zählung aller scheinbaren Bewegungen der Sterne, die von der Sonnenlänge abhängig sind, angenommen ist. An diesen Moment reihen sich die Epochen der

Tafel (Seite 313) nach Sterntagen. Die Sonne erreicht jene Stellung um $8^h\ 53^m.8$ Sternzeit Berlin 1901 Jan. 0. Die Angaben der ersten Columne »Datum in mittlerer Zeit« drücken, von dieser Anfangsepoche beginnend, in Hunderttheilen des mittleren Tages von Berlin die Zeitpunkte aus, welche der Folge der Sternzeiten entsprechen, und für welche die Zahlen der Tafel gelten. Man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch mittleres Datum, Sternzeit und Längendifferenz mit Berlin, leicht und sicher übergehen können.

Diese Tafel dient für Berechnung von Stern-Ephemeriden für die Epochen der Meridiandurchgänge, ohne Berücksichtigung der von der Mondlänge abhängigen Nutationsglieder. Wegen ihrer logarithmischen Form ist sie zur Interpolation nicht geeignet. Man wird deshalb mit Vortheil die Interpolation erst nach der Summirung der einzelnen Correctionen, welche unmittelbar für die Epochen der Tafeln berechnet werden können, eintreten lassen.

Die zweite Tafel (Seite 314—323) giebt nach den Anweisungen der Seite 312 für die mittlere Mitternacht Berlin die bekannten Constanten zur Reduction auf den scheinbaren Ort und zwar unter Weglassung der von der Mondlänge abhängigen Nutationsglieder, da diese Tafel überwiegend zu Reductionen bei Vergleichungen von Beobachtungen mit Ephemeriden dienen soll. In der letzten Columne ist jedoch, um die Mondglieder in derselben Form hinzufügen zu können, unter dem Zeichen ☾ das Argument »mittlere Mondlänge« für die Tafeln der Seiten 324 und 325 angeführt, wobei die Peripherie in 1000 Theile getheilt gedacht ist.

Die Tafeln für die schnell veränderlichen Mondglieder der Nutation (Seite 324 und 325) enthalten die Hülfsmittel für die Reductionen auf den scheinbaren Ort in derselben Form wie die vorangehenden beiden Tafeln.

Denselben liegen folgende Formeln zu Grunde:

$$A' = -0.00405 \sin 2☾ + 0.00134 \sin (☾ - 35^\circ\ 24')$$
$$B' = -0.0884 \cos 2☾$$

und

$$f' = -0''.1865 \sin 2☾ + 0''.0618 \sin (☾ - 35^\circ\ 24')$$
$$g' \sin G' = -0.0884 \cos 2☾$$
$$g' \cos G' = -0.0830 \sin 2☾ + 0.0275 \sin (☾ - 35^\circ\ 24').$$

Die hauptsächlichste Vernachlässigung dabei liegt in der für das ganze Jahr constanten Annahme des für 1901.5 berechneten Perigaeums der Mondbahn: $\Gamma' = 35^\circ\ 24'$.

In der Tafel Seite 326—335 sind die Mondglieder mit den Reductions-Constanten vereinigt worden. Um den Gebrauch dieser Tafel zu erleichtern, sind jedesmal an derjenigen Stelle, wo die Werthe einer der vier Constanten A, B, C, D durch Null gehen, neben den logarith-

mischen Angaben die Numeri der betreffenden Constante beigesetzt. Im Uebrigen gilt hinsichtlich der Einrichtung der Tafel dasselbe, was oben über den Gebrauch der Tafel Seite 313 gesagt wurde.

12) Sonnen- und Mond-Finsternisse.

Die Sonnen-Finsternisse sind in der Form berechnet worden, welche Hansen (Theorie der Sonnen-Finsternisse und verwandten Erscheinungen. Abhandlungen der K. Sächsischen Gesellschaft der Wissenschaften IV) der Behandlung dieses Problems gegeben hat.

Die Bezeichnungen und Einführungen von Hansen sind auch im Jahrbuch bei der tabellarischen Aufstellung der Rechnungsresultate durchgängig beibehalten worden, so dafs es genügen wird, zu ihrer Erläuterung auf die erwähnte Abhandlung zu verweisen (siehe besonders die übersichtliche Anführung der einzelnen Formeln von Seite 434 an).

Es wird hier nur erforderlich sein, in aller Kürze anzugeben, auf welche Weise man mit Hülfe der auf Seite 338 und 341 gegebenen Hansen'schen Elemente der Sonnen-Finsternisse Zeit und Umstände der Finsternifs für jeden Ort innerhalb der Grenzcurven berechnen kann.

Der Ort sei gegeben durch seine (nach Osten gezählte) Länge von Berlin . . . λ, oder von Greenwich . . . $\lambda_0 = \lambda + 13^\circ\, 23'.7$ und durch seine geographische Breite φ.

Man bilde zuerst $\tang \varphi_1 = (1 - c) \tang \varphi$, wo c die Abplattung der Erde ist, also $\log(1 - c) = 9.99855$ angenommen werden kann, sodann:

$$\xi = \cos \varphi_1$$
$$\eta = (1 - c) \sin \varphi_1.$$

Hierauf mufs man für die Epoche des fraglichen Phaenomens, sei es nun erste und letzte äufsere oder innere Berührung oder gröfste Phase, einen Näherungswerth der wahren Ortszeit annehmen.

Hierzu kann man die anderweitigen Angaben des Jahrbuches, insbesondere die eventuelle Angabe der Epochen des Eintrittes der gröfsten Phase auf der Centrallinie zu Rathe ziehen. Ein für die erste Annäherung hinreichender und bequemer Näherungswerth der Ortszeit ist $\mu + \lambda$, wo μ die wahre Berliner Zeit der geocentrischen gröfsten Phase ist. (Siehe Elemente der Finsternifs.)

Sei der Näherungswerth der Ortszeit t_0, so bilde man mit Hülfe der in dem Elementen-Verzeichnifs des Jahrbuchs gegebenen Werthe von γ, μ, n, u', f, δ', g, G, k, K, welche man beiläufig mit dem Argumente der wahren Berliner Zeit $\tau = t_0 - \lambda$ entnimmt, folgende Ausdrücke, welche als gemeinsame Grundlage der Annäherung für die Berechnung aller Phasen dienen können:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_0)$$
$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_0)$$
$$m' \sin M' = - \varkappa \xi \sin g \cos (G + t_0)$$
$$m' \cos M' = n - \varkappa \xi \sin k \sin (K + t_0)$$
$$u_0 = u' - (\eta \sin \delta' + \xi \cos \delta' \cos t_0) \operatorname{tang} f$$

wo $\varkappa = \frac{15 \cdot 3600}{206265}$ $\lg \varkappa = 9.41797$.

Bei der Entnahme von u' und f hat man für innere Berührungen u'_i und f_i, für äufsere Berührungen u'_a und f_a zu wählen.

Hierauf berechnet man:

$$\sin \chi' = \frac{m}{u_0} \sin (M + M')$$
$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u_0}{m'} \cos \chi'$$

wobei man, da zu $\sin \chi'$ ein positiver und ein negativer Werth von $\cos \chi'$ sich ergiebt, zwei Werthe von t (zur ersten oder letzten Berührung gehörig) findet.

Mit jedem dieser beiden Werthe von t rechnet man nun in zweiter Annäherung, wobei die Elemente γ, μ, n, u', f, δ', g, G, k, K mit den wahren Berliner Zeiten $t - \lambda$ aus dem Elementen-Verzeichnifs zu entnehmen sind:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_0)$$
$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_0)$$
$$m' \sin M' = - \varkappa' \xi \sin g \cos \left[G + \frac{1}{2} (t_0 + t)\right]$$
$$m' \cos M' = n - \varkappa' \xi \sin k \sin \left[K + \frac{1}{2} (t_0 + t)\right]$$
$$u = u_0 + \varkappa' \xi \cos \delta' \operatorname{tang} f \sin \frac{1}{2} (t_0 + t) \frac{(t - t_0)}{15}$$

wo $\varkappa' = 30 \cdot \frac{\sin \frac{1}{2} (t - t_0)}{t - t_0}$;

$(t - t_0)$ ist hierbei stets in Graden auszudrücken.

Mit den so gefundenen m, m', M, M' und u bildet man dann wieder

$$\sin \chi' = \frac{m}{u} \sin (M + M')$$
$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u}{m'} \cos \chi'.$$

Von den beiden Lösungen für t benutzt man bei der zweiten und den folgenden Näherungen für den Eintritt natürlich nur die zum Eintritt, ebenso bei den Näherungen für den Austritt die zum Austritt gehörige.

Die in zweiter oder dritter Näherung gefundenen Werthe t sind meistens schon genau genug die wahren Ortszeiten des gesuchten Eintritts oder Austritts, und die Positionswinkel (am Sonnenmittelpunkt von der Richtung zum Nordpol nach der Seite der wachsenden Rectascensionen oder nach Osten hin gezählt) der Eintritts- und Austritts-Punkte sind mit den beiden Werthen von χ', die der Sinus ergiebt:

$$\vartheta = N' + M' - \chi',$$

wo N' aus dem Elementen-Verzeichnifs zu entnehmen ist.

Um die Zeit der gröfsten Phase zu berechnen, kann man zunächst die Werthe t_0, m, m', M, M' aus der obigen ersten Annäherung benutzen und damit bilden:

$$t_1 = t_0 - 15 \frac{m}{m'} \cos(M + M').$$

Mit dem so gefundenen Werthe t_1 bildet man für die Epoche $t_1 - \lambda$ wieder die Werthe der Elemente und berechnet damit in zweiter Annäherung die Werthe m, m', M, M', indem man in den Gleichungen der ersten Annäherung t_0 durchgängig mit t_1 vertauscht. Man hat dann den genaueren Werth der Ortszeit der gröfsten Phase:

$$t = t_1 - 15 \frac{m}{m'} \cos(M + M')$$

und zur Controle für diese Zeit $M + M' = 90°$ oder $= 270°$, je nachdem der Mond-Mittelpunkt nördlich oder südlich vom Sonnen-Mittelpunkt vorbeigeht.

Zur Bestimmung der Gröfse der Verfinsterung hat man zugleich:

$$u = m,$$

welcher Werth bei centraler Verfinsterung $= 0$ wird.

Die Gröfse in Theilen des Durchmessers i findet man mit einer für diese rohe Angabe genügenden Näherung:

$$i = \frac{u'_a - u}{u'_a - u'_i} \cdots$$

Die Angaben über die Hauptumstände der Sonnen - Finsternifs 1901 Nov. 10 (Seite 343 und 344) sind hauptsächlich zum Gebrauch für die innerhalb Deutschlands gelegenen Orte bestimmt, umfassen aber auch die nördlich und südlich an Deutschland sich anschliefsenden Ländergebiete. Der Gebrauch der Tafel ist unmittelbar aus deren Einrichtung und den an Ort und Stelle hinzugefügten Bemerkungen zu ersehen.

Zu den Angaben über die Mond-Finsternifs (Seite 340) sei bemerkt, dafs als Vergröfserungsfactor des Erdschattens $\frac{1}{50}$ angenommen wurde.

13) Stern-Bedeckungen durch den Mond.

Bei den Stern-Bedeckungen findet man zunächst (Seite 345 und 346) ein Verzeichnifs derjenigen helleren Sterne (bis zur 5.5. Gröfse), welche im Laufe des Jahres 1901 für irgend einen Ort der Erdoberfläche vom Monde bedeckt werden können. Die Gröfsenangaben beruhen zum gröfsten Theil auf den Schätzungen von Argelander und Heifs, in einzelnen wenigen Fällen sind aufserdem für diese Angaben die Schätzungen Gould's benutzt; die mittleren Oerter sind nach den Angaben verschiedener Kataloge mit Berücksichtigung der Eigenbewegung auf 1901.0 reducirt.

Hierauf folgen in den zweispaltigen Seiten 347—353 die Hülfsmittel zur Berechnung der einzelnen Bedeckungen:

in der 1. Columne die Nr. des Sternes, welcher bedeckt wird, nach dem voranstehenden Verzeichnisse;

in der 2. Columne die Zeit der geocentrischen Conjunction in AR. von Stern und Mondmittelpunkt in Monatstagen, Stunden und Minuten;

in der 3., 4. und 5. Columne die Werthe folgender Ausdrücke:

$$q = \frac{\delta - D}{\pi} \qquad p' = \frac{\Delta\alpha \,.\, \cos\delta}{\pi} \qquad q' = \frac{\Delta\delta}{\pi}$$

p' und q' in Einheiten der 4. Decimale.

In diesen Ausdrücken bedeutet:

δ die geocentrische Declination des Mondes für die geocentrische Conjunctions-Zeit T.

π die Aequatorial-Horizontal-Parallaxe des Mondes für die geocentrische Conjunctions-Zeit T.

D die Declination des Sternes.

$\Delta\alpha$ und $\Delta\delta$ die Veränderung der geocentrischen Rectascension und Declination des Mondes (bezw. vermindert um die Veränderung des Planetenortes bei den Planetenbedeckungen), für eine Stunde mittlere Zeit, gültig für die Conjunctions-Zeit T.

Nennt man ferner die geocentr. AR. des Mondes zur Zeit T . . . α, die AR. des Sternes . . . A, den geocentr. scheinbaren Halbmesser des Mondes . . . r, die Längendifferenz des Beobachtungsortes gegen Berlin . . . d (östlich positiv), die der mittleren Zeit $T + d$ entsprechende Sternzeit des Ortes . . . μ, seine geocentrische Breite . . . φ', seinen geocentrischen Radius vector in Theilen des Radius des Aequators . . . ϱ; setzt man endlich (nach J. Peters *Astron. Nachr.* 3297)

$$\frac{r}{\pi} = k = 0.2725, \qquad \log k = 9.4354$$

$$\text{und } \log(15 \,.\, 3609.9 \sin 1'') = \log\lambda = 9.41916\,.$$

so wird die Aufgabe der Vorausberechnung der Ortszeit etc. für die betreffende Bedeckung in Verbindung mit den obigen in den Tafeln gegebenen Werthen gelöst durch die Bildung folgender Ausdrücke und die Ausführung folgender Rechnungen (nach Bessel's Näherungsformeln im Jahrbuch für 1831):

$$p = \frac{(\alpha - A)\cos\delta}{\pi} \quad (= 0 \text{ für das Zeitmoment } T)$$

$$u = \varrho\cos\varphi'\sin(\mu - A)$$

$$v = \varrho\sin\varphi'\cos D - \varrho\cos\varphi'\cos(\mu - A)\sin D$$

$$u' = \lambda\varrho\cos\varphi'\cos(\mu - A) \qquad = \left(\frac{du}{dt}\right)$$

$$v' = \lambda\varrho\cos\varphi'\sin(\mu - A)\sin D \qquad = \left(\frac{dv}{dt}\right)$$

$$m\sin M = p - u \qquad n\sin N = p' - u'$$

$$m\cos M = q - v \qquad n\cos N = q' - v'$$

(m und n stets positiv)

$$\tau = -\frac{m}{n}\cos(M - N).$$

Die Momente des Eintritts und des Austritts T_1 und T_2 des Sternes werden dann gefunden, wenn noch $\cos\psi = \frac{m\sin(M-N)}{k}$ (wo ψ immer kleiner als 180°) berechnet ist:

$$T_1 = T + d + \tau - \frac{k}{n}\sin\psi \qquad T_2 = T + d + \tau + \frac{k}{n}\sin\psi.$$

Die Oerter des Eintrittes und Austrittes an der Mondscheibe in dem auf Seite 486 erläuterten Positionswinkel-Ausdruck sind:

$$Q_1 = N - 90^\circ + \psi \qquad Q_2 = N - 90^\circ - \psi.$$

Die so gefundenen Resultate werden indefs von der Wahrheit sehr entfernt sein können, wenn die Correction τ, welche zu der Ortszeit der geocentrischen Conjunction hinzugefügt werden mufs, um die Ortszeit des auf den Beobachtungsort bezüglichen kleinsten Abstandes des Sterns vom Mondmittelpunkt zu finden, sehr beträchtlich ist; mit anderen Worten, wenn an dem betreffenden Ort zur Zeit $T + d$ der Stundenwinkel des Mondes grofs ist. In diesem Falle nämlich ist hauptsächlich die Berechnung der der Zeit folgenden Veränderungen von u und v durch die ersten Differential-Quotienten u' und v' bei der starken Aenderung des Winkels $(\mu - A)$ nicht mehr genügend, sondern man mufs jetzt die zweite Näherung ausführen, indem man für die Ortszeit $T + d + \tau$ oder die Berliner Zeit $T + \tau = T_0$ berechnet:

$$p_0 = \tau p' \qquad q_0 = q + \tau q' \qquad \mu_0 = \mu + \tau + \varepsilon \qquad t = \mu_0 - A$$

(wo ε die Reduction des mittleren Zeitintervalles τ auf Sternzeit bedeutet)

$$u = \varrho \cos \varphi' \sin t$$
$$v = \varrho \sin \varphi' \cos D - \varrho \cos \varphi' \sin D \cos t$$
$$u' = \lambda \varrho \cos \varphi' \cos t$$
$$v' = \lambda \varrho \cos \varphi' \sin D \sin t.$$

Berechnet man mit diesen Werthen

$$\varDelta\tau = -\frac{m}{n} \cos (M-N),$$

so wird diese Näherung schon ziemlich ausreichend sein, um die Zeiten und Oerter des Eintrittes und Austrittes zu finden, wie oben:

$$\cos \psi = \frac{m \sin (M-N)}{k}$$

$$T_1 = T + d + \tau + \varDelta\tau - \frac{k}{n} \sin \psi \text{ u. s. w.}$$

Bei der Berechnung der ersten Näherung, welche τ ergiebt, wird es aber nicht nöthig sein, nach den ausführlichen Formeln bis

$$\tau = -\frac{m}{n} \cos (M-N)$$

zu rechnen, sondern man wird eine wesentliche Abkürzung und eine hinreichende Convergenz der Näherung erreichen, wenn man setzt:

$$\tau = \frac{u}{p' - u'} \cdot \cdot \cdot \cdot \cdot$$

Wenn man hier noch statt des jedesmaligen, in den Elementen der Sternbedeckungen angegebenen p' den Durchschnittswerth 0.5646 annimmt, läfst sich der Ausdruck

$$\tau = \frac{\varrho \cos \varphi' \sin (\mu - A)}{0.5646 - \lambda \varrho \cos \varphi' \cos (\mu - A)}$$

für eine bestimmte Polhöhe φ' sehr leicht mit dem Argumente des Stundenwinkels $(\mu - A)$ in eine Hülfstafel bringen, aus der man ohne Mühe den zur ersten Näherung hinreichenden Werth von τ bei westlichem Stundenwinkel positiv, bei östlichem negativ entnimmt.

Um für jeden Ort die erste Correction τ in Minuten ausgedrückt zu finden, kann die Tafel Seite 491 mit dem Horizontal-Argument »φ'« und dem Vertical-Argument »Stundenwinkel« dienen. Zur genäherten Bildung des letzteren Argumentes werden die Columnen der Mond-Ephemeride, welche »Mond im Meridian« überschrieben sind, von Nutzen sein können.

Für Orte, die nicht zu weit von Berlin entfernt sind, wird man aus dem für Berlin gegebenen Verzeichnifs häufig schon ersehen können, ob eine Sternbedeckung stattfindet oder nicht; für näher gelegene Orte dürfte es in diesem Falle schon genügen, wenn man an die für Berlin gegebenen Zeiten des Ein- und Austrittes nur die Längendifferenz anbringt. Wenn nämlich die Sehne vom Punkte des Eintrittes zu dem des Austrittes dem Mondmittelpunkt nahe liegt, so müfste der Unterschied der Parallaxe

für Berlin und den andern Ort schon nahe den Betrag des Mondhalbmessers erreichen, wenn dort die Sternbedeckung nicht sichtbar sein sollte; für nahe liegende Orte sind die Wirkungen kleiner Unterschiede der Parallaxen gerade in diesem Falle sehr gering.

Um allgemein für irgend einen Ort, dessen östliche Länge d und dessen geocentrische Breite φ' näherungsweise bekannt sind, im voraus zu bestimmen, welche Sternbedeckungen sichtbar werden, hat man nach den im Jahrbuch gegebenen Elementen folgendes zu beachten:

Nach den Angaben der Mond-Ephemeride kennt man die Zeiten des Meridiandurchganges des Mondes (M) und seine Declination (δ), wie die Declination der Sonne. Nachdem man dann ($T + d$) gebildet, wird man mit Hülfe einer Tafel der halben Tagbögen (wie sie in den Handbüchern der Nautik für alle Breiten sich berechnet finden) meist sogleich entscheiden können:

1) Ob Ein- und Austritt nach Sonnenuntergang und Mondaufgang oder vor Sonnenaufgang und Monduntergang stattfinden. Auf die Vergröfserung des Tagbogens durch die Bewegung des Mondes und auf die Parallaxe desselben ist vorläufig hierbei keine Rücksicht geboten, da die Wirkungen derselben in ihren mittleren Werthen mittelst der Tafel Seite 491 durch τ berücksichtigt werden. — Nur die Bedeckungen hellerer Gestirne (bis 2. Gr.) können auch bei Tage beobachtet werden. Die Beobachtung des Eintrittes schwächerer Sterne kurz nach Sonnenuntergang oder des Austrittes kurz vor Sonnenaufgang werden oft durch örtliche oder atmosphärische Verhältnisse gehindert.

Aus nachstehender Tafel, in welcher τ das Zeichen des Stundenwinkels hat, erhält man sogleich mit φ' und $T + d - M$ einen Näherungswerth für τ und hiermit den genäherteren Stundenwinkel $t = T + d - M + \tau$ und $q_0 = q + \tau q'$. Einen genäherten Werth von v erhält man durch Berechnung von

$$\sin(\varphi' - D) + \cos\varphi' \sin D (1 - \cos t)\ ^{*)}.$$

2) Ist nun $q_0 - v < k$ ($k = 0.27$), so findet in der Regel eine Bedeckung statt, im entgegengesetzten Falle nicht. Da aber τ zuerst nur annäherungsweise bekannt ist, so mufs, wenn $q_0 - v$ dem Werthe von k nur nahe kommt, eine ausführlichere Berechnung angestellt werden.

In vielen Fällen dieser Art genügen indefs schon einige weitere Betrachtungen zur Entscheidung, ob der aus der Tafel entnommene Werth von τ dem wahren Werthe von τ sehr nahe kommt, gröfser oder kleiner ist. Man wird nämlich leicht entscheiden können, ob $(q' - v')$ sehr klein, positiv oder negativ wird, das Zeichen von $(q_0 - v)$ ist in den erwähn-

---

*) Um für einen Ort eine allgemeine, für diesen Zweck genügende Tafel der v zu bilden, hat man höchstens 5 Werthe von $\sin(\varphi' - D)$ und 2 Werthe von $\cos\varphi' \sin D$ auf 2 oder 3 Stellen zu berechnen.

φ'

t	0°	8°	16°	24°	32°	40°	48°	56°	64°	72°	t
h m	m	m	m	m	m	m	m	m	m	m	h m
0 0	0	0	0	0	0	0	0	0	0	0	0 0
20	17	17	16	15	13	11	9	7	5	3	20
40	34	33	32	29	26	22	18	14	10	7	40
1 0	50	49	47	43	38	32	26	21	15	10	1 0
20	65	63	60	55	49	42	34	27	20	13	20
40	78	76	73	67	59	51	42	33	24	16	40
2 0	89	88	84	77	68	59	49	38	28	19	2 0
20	98	97	93	85	76	66	55	43	32	21	20
40	106	105	100	93	83	72	60	48	36	24	40
3 0	112	110	106	98	89	77	65	52	39	26	3 0
20	116	115	110	102	93	81	68	55	41	28	20
40	119	117	113	105	96	84	71	57	43	29	40
4 0	120	119	114	107	97	86	73	59	45	31	4 0
20	120	118	114	107	98	87	74	61	46	32	20
40	119	117	113	107	98	87	75	61	47	33	40
5 0	117	115	112	106	97	87	75	62	48	33	5 0
20	114	113	109	103	95	86	74	62	48	33	20
40	110	109	106	101	93	84	73	61	47	33	40
6 0	106	105	102	97	90	82	71	60	47	33	6 0
20	102	101	98	93	87	79	69	58	46	32	20
40		96	93	89	83	76	67	56	44	32	40
7 0			88	84	79	72	64	54	43	31	7 0
20			83	80	75	68	61	51	41	30	20
40				75	70	64	57	49	39	28	40
8 0					65	60	53	46	37	27	8 0
20						55	49	42	34	25	20
40							45	39	32	23	40
9 0							41	36	29	21	9 0
20								32	26	19	20
40								28	23	17	40
10 0								24	20	15	10 0
20									17	12	20
40									13	10	40
11 0									10	7	11 0
20									7	5	20
40										3	40
12 0										0	12 0

ten zweifelhaften Fällen sehr bestimmt zu erkennen. Der Werth von u hängt für eine bestimmte Breite des Ortes nur von $\sin t$ ab und kann nie gröfser als $\cos\varphi'$ werden. — Hiernach gilt folgende Regel:

3) Sind $(q_0 - v)$ und $(q' - v')$ gleichnamig (beide positiv oder beide negativ), so mufs $p_0 - u = \tau p' - u$ negativ, sind jene ungleichnamig, so mufs $\tau p' - u$ positiv, ist $(q' - v')$ sehr klein (also das Vorzeichen noch unbestimmt), so mufs $\tau p'$ nahe gleich u werden, wonach man den Tafelwerth von τ sogleich um ein oder ein paar Zehntel der Stunde im richtigen Sinne verbessern kann.

Seite 354 enthält die Vorausberechnung der Stern-Bedeckungen für Berlin.

14) Jupiters-Trabanten und Saturns-Ring.

Auf die Planeten-Ephemeriden folgen Seite 355—360 die Erscheinungen der vier älteren Jupiters-Trabanten, und zwar für sämmtliche Trabanten zunächst die Angaben, aus denen man den Ort derselben, wie sie vom Mittelpunkte der Erde aus gesehen zu einer beliebigen Zeit in Bezug auf den Mittelpunkt der Jupiterscheibe erscheinen, herleiten kann, sodann die Zeitangaben für die Verfinsterungen derselben in dem Schattenkegel des Jupiter, welche von ihrem Stande gegen die Sonne abhängen. Bei den Verfinsterungen ist für die beiden inneren Trabanten die Zeit des Ein- oder Austritts, für die beiden äufseren Trabanten die Mitte der Verfinsterung und ihre halbe Dauer angegeben, alles in mittlerer Berliner Zeit und so, wie man die Erscheinung unmittelbar beobachten kann.

Für den geocentrischen Ort ist die Zeit der jedesmaligen scheinbaren oberen Conjunction des Trabanten mit der Erde, oder die Zeit, wann Jupiter sich in einer auf die Ebene der Trabantenbahn senkrecht gelegten Ebene zwischen der Erde und dem Trabanten befindet, angesetzt. Für jeden Trabanten sind in den Jahrbüchern bis zum Jahrgang 1871 Hülfstafeln gegeben, welche für die mittlere synodische Umlaufszeit die Abscissen und Ordinaten des Ortes des Trabanten in seiner als kreisförmig angenommenen Bahn ergeben. Die Axe der Abscissen liegt senkrecht auf der Conjunctions-Ebene, beide Coordinaten natürlich in der Ebene der Trabantenbahn und ihr Anfangspunkt im Mittelpunkte der Jupiterscheibe. Die Einheit, in welcher die Coordinaten ausgedrückt sind, ist der Halbmesser des Jupiter. Die kreisförmige Bahn wird sich der Erde als eine Ellipse darstellen, deren kleine Axe in der Conjunctions-Ebene liegt, so dafs die Abscissen ungeändert bleiben, die Ordinaten aber in dem Verhältnifs der halben kleinen zur halben grofsen Axe vermindert werden müssen. Dieses Verhältnifs, und zwar $\frac{b}{a}$, ist neben den Zeiten der oberen Conjunction angesetzt. Wünscht man nun für eine

Zeit T, welche zwischen zwei auf einander folgende Zeiten t und t' der oberen Conjunction fällt, den Ort des Trabanten zu haben, so geht man mit dem Argument

$$T - t$$

in die Hülfstafeln ein, nimmt daraus die entsprechenden Werthe von x und y', und hat damit in Halbmessern des Jupiter den Stand des Trabanten, in Bezug auf den Mittelpunkt des Jupiter, gegeben durch

$$x \text{ und } y = y' \frac{b}{a}$$

wobei man die Zeichen von x, y' und $\frac{b}{a}$ zu berücksichtigen hat. Das Zeichen der letzten Gröfse deutet an, welche Fläche der Trabanten-Bahn man sieht, ob die obere (nördliche, dem Nordpole der Ekliptik zugewandte bei positivem $\frac{b}{a}$), oder die untere (südliche).

Die Zeichen von x und y sind so gewählt, dafs für Berlin zur Zeit der Culmination der Trabant für den Anblick im Fernrohre bei positivem x rechts, bei negativem x links vom Jupiter erscheint; bei positivem y ist er nördlich und beim negativen y südlich von einer Linie, welche mit den Streifen parallel durch das Centrum des Jupiter gezogen werden kann.

Man könnte hier mit Leichtigkeit noch eine kleine Correction anbringen, wenn die Zwischenzeiten zweier auf einander folgenden oberen Conjunctionen beträchtlich von der mittleren synodischen Umlaufszeit verschieden wären. Wäre die letztere T', so würde man mit dem Argument

$$(T - t) \frac{T'}{t' - t}$$

eingehen müssen. Ebenso findet man die Vorübergänge der Trabanten vor der Jupiterscheibe durch die Zeiten der unteren Conjunction, das Mittel aus den oberen, und die Ein- und Austritte der Trabanten in die Jupiterscheibe durch die Zeiten, zu denen

$$\sqrt{x^2 + y^2} = 1,$$

wobei man von der elliptischen Gestalt des Jupiter absieht. Indessen sind diese letzteren Momente nur als beiläufige Näherungen zu betrachten, da für diese feineren und genaueren Bestimmungen die Tafeln sich nicht einfach genug einrichten liefsen, und aus gleichem Grunde wird die ersterwähnte Verbesserung wegen des Unterschiedes zwischen der wahren und mittleren synodischen Umlaufszeit unnöthig sein.

Statt auf die in den früheren Jahrbüchern gegebenen Elongations-Tafeln zurückzugreifen, kann man auch leicht die Coordinaten der Trabanten aus den folgenden Formeln berechnen;

$$\left.\begin{aligned} x &= (0.7559)\sin[203^\circ.40\,.\,t] \\ y' &= (0.7559)\cos[203^\circ.40\,.\,t] \end{aligned}\right\}\text{ Trabant I.}$$

$$\left.\begin{aligned} x &= (0.9576)\sin[101^\circ.29\,.\,t] \\ y' &= (0.9576)\cos[101^\circ.29\,.\,t] \end{aligned}\right\}\text{ Trabant II.}$$

$$\left.\begin{aligned} x &= (1.16017)\sin[50^\circ.235\,.\,t] \\ y' &= (1.16017)\cos[50^\circ.235\,.\,t] \end{aligned}\right\}\text{ Trabant III.}$$

$$\left.\begin{aligned} x &= (1.40552)\sin[21^\circ.488\,.\,t] \\ y' &= (1.40552)\cos[21^\circ.488\,.\,t] \end{aligned}\right\}\text{ Trabant IV.}$$

wo t die seit der letzt vorangehenden oberen Conjunction verflossene Zeit bezeichnet, ausgedrückt in Tagen, und wo die eingeklammerten Zahlen Logarithmen bedeuten. Die zu Grunde gelegten Werthe der mittleren Entfernungen vom Jupiterscentrum (in Halbmessern der Jupiterscheibe) und die synodischen Umlaufszeiten sind beziehungsweise:

Trabant I.	5.70	1^d	18^h	$28^m.6$
» II.	9.07	3	13	17 .9
» III.	14.46	7	3	59 .6
» IV.	25.44	16	18	5 .1

Die Angaben für die Jupiters-Trabanten sind nach den Tafeln von Damoiseau und der Fortsetzung derselben von Pottier berechnet.

Ueber die Verbesserungen, deren die Damoiseau'schen Tafeln und die danach berechneten Verfinsterungen der Trabanten bedürftig sind, ist in dem Jahrbuche für 1880 Näheres an dieser Stelle mitgetheilt worden.

Auf Seite 361 stehen die Angaben für die Lage und Gröfse des Saturns-Ringes, deren Bedeutung dort hinzugefügt ist. Es liegen folgende Bestimmungen nach Bessel zu Grunde:

Aufsteigender Knoten des Saturns-Ringes auf der beweglichen Ebene der Ekliptik . . . . $= 166^\circ\ 53'\ 8''.9 + 46''.462\ (t-1800)$
Neigung gegen dieselbe . . . . $= 28\ \ 10\ \ 44\ .7 - 0\ .350\ (t-1800)$

Durchmesser des Ringes in der Entfernung, deren Logarithmus $= 0.9796480$ . . . . . $= 39''.311$.

15) Constellationen.

In der Uebersicht der Constellationen des Jahres 1901 (Seite 362 und 363) sind die hauptsächlichsten Planeten-Constellationen gegeneinander und gegen Sonne, Mond und die Sterne 1. und 2. Gröfse, sowie die An-

gaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeckungen der Planeten und der helleren Fixsterne (bis 2. Gröſse) durch den Mond auf der Erde überhaupt sind hier ebenfalls nochmals mit aufgeführt. — Die Conjunctionen der Planeten mit dem Mond und untereinander sind als Conjunctionen in AR. zu verstehen. Die Epochen der gröſsten Helligkeit der Venus sind nach derjenigen Formel für die Lichtstärke, welche G. Müller in der *Publ. des Astrophys. Obs. zu Potsdam*, Bd. VIII, Seite 197 ff. gegeben hat, berechnet.

Als Abkürzungen sind in dieser Uebersicht folgende gebraucht:

♈ Widder.
♉ Stier.
♊ Zwillinge.
♋ Krebs.
♌ Löwe.
♍ Jungfrau.
♎ Waage.
♏ Scorpion.
♐ Schütze.
♑ Steinbock.
♒ Wassermann.
♓ Fische.

☉ Sonne.
☾ Mond.
☿ Mercur.
♀ Venus.
♁ Erde.
♂ Mars.
♃ Jupiter.
♄ Saturn.
♅ Uranus.
♆ Neptun.

☌ Conjunction.
□ Quadratur.
☍ Opposition.

☊ Aufsteigender } Knoten.
☋ Niedersteigender }

16) Hülfstafeln.

Es folgt eine Reihe von häufig gebrauchten Hülfstafeln.

1) Die Tafel zur Berechnung der Mondlibration (Seite 364 und 365) reproducirt (mit einer neuen Annahme über *J* berechnet) die bekannte Encke'sche Tafel (Berl. Jahrb. 1843); sie gestattet in Verbindung mit den Angaben der Seite 88 die rasche Berechnung der optischen Libration in selenocentrischer Länge und Breite nach den Formeln, die auf Seite 365 vollständig aufgeführt sind. Hierbei scheint die Kenntniſs der wahren Längen und Breiten des Mondes nothwendig zu sein, welche im Jahrbuch vermisst werden; indessen werden die Längen und Breiten zu diesem Zweck mit merklichem Vortheil aus der mit Hinzufügung der Parallaxe berechneten AR. und Decl. abgeleitet, wozu man sich der gewöhnlichen Umwandlungsformeln oder, wenn nicht gröſsere Genauigkeit erfordert wird, der Encke'schen Hülfstafel im Berl. Jahrbuch 1831 bedienen kann.

2) Eine Tafel mit Angabe der Bruchtheile des tropischen Jahres, die den nebenstehenden mittleren Daten (0^h Mittl. Zeit Berlin) entsprechen. (Seite 366 und 367.)

3) Eine Tafel für die Ermittelung eines Datums in der julianischen Periode. (Seite 368 und 369.)

4) Eine Tafel mit Angabe der Hülfsgröfsen zur Berechnung der Praecession von den hauptsächlichsten Sternkatalog-Epochen bis 1901.0 (Seite 370). Diese Tafel ist der Redaction von Prof. Kreutz gütigst zur Verfügung gestellt worden.

5) Die Hülfstafeln zur Verwandlung von mittlerer Zeit und Sternzeit.

17) Coordinaten der Sternwarten.

Die Seiten 373 bis 379 enthalten die geographischen und geocentrischen Coordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben worden, wo sie sich einigermafsen sicher ermitteln liefsen; zumeist sind sie dem Verzeichnifs von Prof. Auwers im *Geographischen Jahrbuch* entnommen worden; bei der Berechnung von log ϱ sind sie berücksichtigt.

Die geocentrischen Coordinaten sind nach den Bessel'schen Erddimensionen berechnet.

Die Columne »Correction der Sternzeit« enthält für jeden Ort die Differenz: Sternzeit im mittleren Mittag minus Sternzeit im mittleren Berliner Mittag.

Das Verzeichnifs hat im vorliegenden Jahrgang Aenderungen bezw. Zusätze für die Lage folgender Sternwarten erfahren:

Catania	nach den Angaben des Herrn Dr. Kobold.
Jena	nach den *Astronomischen Nachrichten* Nr. 3496.
Neapel }	nach den Angaben des Herrn Prof. Auwers im
Palermo }	*Geographischen Jahrbuch*.
Rom (Vatican)	nach brieflicher Mittheilung.

18) Bahnelemente der kleinen Planeten.

Die Seiten 380—402 enthalten die Bahnelemente der kleinen Planeten nach den neuesten der Redaction bekannt gewordenen Bestimmungen. Die unmittelbar den Namen folgenden Columnen geben auch das Datum der Opposition im Jahre 1899 und die Gröfse zur Zeit derselben.

Ferner sind gegeben zwei Columnen m_0 und g, welche zur Berechnung der Gröfse dienen. Es bedeutet m_0 die mittlere Gröfse, d. h. diejenige Gröfse, welche der Planet in seiner mittleren Entfernung a von

der Sonne und der gleichzeitigen Entfernung $a - 1$ von der Erde haben würde; ferner ist g eine Gröfse, welche aus m_0 nach der Formel

$$g = m_0 - 5 \cdot \log a(a-1)$$

berechnet ist, und welche dazu dient, für einen beliebigen geocentrischen Ort des Planeten seine Gröfsenklasse M zu berechnen. Ist Δ die Entfernung des Planeten von der Erde, r seine Entfernung von der Sonne, so ist seine Gröfse

$$M = g + 5(\log \Delta + \log r).$$

19) Oppositions-Daten der kleinen Planeten.

Von den 347 im Jahre 1899 und zu Anfang des Jahres 1900 stattfindenden Oppositionen der kleinen Planeten (1)—(436) ist Seite 403—411 eine übersichtliche Zusammenstellung, nach der Oppositionszeit geordnet, gegeben. In diesem Verzeichnisse ist neben dem Namen des Planeten der Tag der Opposition in AR., die Gröfse, der genäherte geocentrische Ort und die tägliche Bewegung an jenem Tage und aufserdem das Jahr, in welchem der Planet zum letzten Male beobachtet wurde, angegeben.

Für 36 Planeten, welche in dem Oppositions-Verzeichnifs durch ein Sternchen (*) bezeichnet sind, enthalten die Seiten 412—451 ausführliche Ephemeriden; für etwa 90 weitere Planeten, deren Beobachtung im Jahre 1899 erwünscht erscheint, sind genäherte Oppositions-Ephemeriden in den Veröffentlichungen des Rechen-Institutes Nr. 9 und 10 gegeben.

20) Ausführliche Oppositions-Ephemeriden.

Diese Ephemeriden (Seite 412—451), die neben der Erleichterung der Beobachtungen einer künftigen Theorie der entsprechenden Planeten zur Grundlage dienen sollen, sind zum Theil im Rechen-Institut berechnet, zum Theil von den unterzeichneten Herren der Redaction gütigst zur Verfügung gestellt worden. Für die Lichtzeit ist hierbei noch durchgängig angenommen: $497^s.8$.

Die über sechs Monate ausgedehnte Ephemeride der Iris ist auf Ersuchen des Herrn D. Gill als Vorbereitung zu der von ihm in Aussicht genommenen Operation behufs Ergänzung seines früheren Parallaxenwerkes berechnet worden; sie beruht auf den Brünnow'schen Tafeln mit Correction der mittleren Anomalie von $+18''.5$.

21) Nachweisungen über die kleinen Planeten.

Das die Nachweisungen über die kleinen Planeten enthaltende Verzeichnifs (Seite 452—470) giebt, in zwei Abschnitten, eine Uebersicht der Stellen in den verbreitetsten Publicationsmitteln, wo A. Beobachtungen, B. Berechnungen in Bezug auf die kleinen Planeten sich vorfinden. Das Nähere ist aus dem Verzeichnisse selbst unmittelbar zu ersehen. — Die Uebersicht umfafst Band 144, S. 257 bis Band 147, S. 288 incl. der *Astronomischen Nachrichten* (bezeichnet mit A. N.), die *Comptes Rendus des Séances de l'Académie des Sciences* Band CXXV, S. 473 bis CXXVII, S. 456 (bezeichnet mit C. R.), das *Bulletin Astronomique* XIV, S. 369 bis XV, S. 368 (bezeichnet mit B. A.), das *Astronomical Journal* Band 18, S. 41 bis Band 19, S. 96 (bezeichnet mit A. J.). Die angenommenen Grenzen dieser Uebersicht entsprechen den Zeitgrenzen der Publication 1897 Oct. 1 bis 1898 Oct. 1.

Zur Statistik der kleinen Planeten im Jahre 1898.

Seit dem Erscheinen des letzten Jahrbuches sind bis Ende December 1898 folgende 12 neue Planeten entdeckt, bezw. als solche erkannt worden, welche zu der Gruppe zwischen Erde und Jupiter gehören:

426	1897 *DH*	entdeckt	1897	Aug. 25	von Hrn. A. Charlois in Nizza.
427	» *DJ*	»	»	Aug. 27	
428	Monachia	»	»	Nov. 18	» » Villiger in München.
429	1897 *DL*	»	»	Nov. 23	» » A. Charlois in Nizza.
430	» *DM*	»	»	Dec. 18	
431	» *DN*	»	»	Dec. 18	
432	» *DO*	»	»	Dec. 18	
433	Eros	»	1898	Aug. 13	» » Witt in Berlin.
434	Hungaria	»	»	Sept. 11	» » Wolf in Heidelberg.
435	1898 *DS*	»	»	Sept. 11	» » Wolf und Schwassmann in Heidelberg.
436	» *DT*	»	»	Sept. 13	
	1898 *EC*	»	»	Oct. 13	» » Coddington auf Mt. Hamilton.

Aufser den oben genannten sind noch 10 Planeten gefunden worden, über deren Bahnen Genaueres noch nicht ermittelt werden konnte, und welche vorläufig folgende Bezeichnungen erhalten haben: (1898 *DP*),

(1898 *DU*), (1898 *DV*), (1898 *DW*), (1898 *DX*). (1898 *DY*), (1898 *DZ*), (1898 *EA*), (1898 *EB*) und (1898 *ED*).

Unter den 437 jetzt bekannten kleinen Planeten sind im gegenwärtigen Zeitpunkte (Ende December 1898), soviel der Redaction bekannt geworden ist:

282 Planeten, welche in mindestens 4 Oppositionen beobachtet sind, nämlich die Planeten (1) bis (254) mit Ausnahme von (99), (132), (149), (155), (156), (157), (163), (188), (193), (217), (220), (228) und aufserdem:

(258) Tyche	(273) Atropos	(295) Theresia	(329) Svea
(259) Aletheia	(275) Sapientia	(301) Bavaria	(334) Chicago
(261) Prymno	(276) Adelheid	(303) Josephina	(345) Tercidina
(263) Dresda	(277) Elvira	(304) Olga	(349) Dembowska
(264) Libussa	(279) Thule	(306) Unitas	(354) Eleonora
(266) Aline	(283) Emma	(308) Polyxo	(363)
(267) Tirza	(284) Amalia	(313) Chaldaea	(371)
(268) Adorea	(287) Nephthys	(317) Roxane	(377)
(269) Justitia	(288) Glauke	(321) Florentina	(379)
(270) Anahita	(292) Ludovica	(326) Tamara	(387)

41 Planeten, welche in 3 Oppositionen beobachtet sind, nämlich:

(149) Medusa	17	(278) Paulina	9	(335) Roberta	5	(375)	5
(163) Erigone	17	(282) Clorinde	8	(337) Devosa	5	(376)	4
(217) Eudora	15	(286) Iclea	8	(344) Desiderata	5	(378)	5
(228) Agathe	12	(291) Alice	7	(346) Hermentaria	5	(381)	5
(255) Oppavia	10	(298) Baptistina	6	(347) Pariana	5	(384) Burdigala	4
(256) Walpurga	11	(305) Gordonia	7	(348) May	5	(385) Ilmatar	4
(257) Silesia	11	(311) Claudia	7	(352) Gisela	5	(386)	4
(260) Huberta	11	(318) Magdalena	7	(356)	5	(389)	4
(262) Valda	10	(324) Bamberga	6	(358)	5	(405)	3
(271) Penthesilea	10	(325) Heidelberga	6	(366)	5	(416) Vaticana	3
(272) Antonia	9						

41 Planeten, welche nur in 2 Oppositionen beobachtet sind, nämlich:

(188) Menippe	17	(312) Pierretta	6	(350)	5	(374)	5
(265) Anna	9	(322) Phaeo	6	(351) Yrsa	5	(380)	4
(274) Philagoria	9	(331) Etheridgea	6	(362)	5	(390)	4
(280) Philia	9	(332) Siri	6	(364)	5	(391) Ingeborg	4
(281) Lucretia	8	(333) Badenia	6	(365)	5	(397)	4
(289) Nenetta	8	(336) Lacadiera	5	(367)	4	(402)	3
(294) Felicia	7	(338) Budrosa	6	(369) Aëria	5	(403)	3
(297) Caecilia	7	(339) Dorothea	6	(370)	4	(409)	3
(299) Thora	7	(342) Endymion	5	(372)	5	(419)	2
(300) Geraldina	7	(343) Ostara	5	(373)	5	(420) Bertholda	2
(302) Clarissa	7						

73 Planeten, welche bisher nur in 1 Opposition beobachtet sind, nämlich:

(99) Dike . . . 25	(316) Goberta . . 6	(382) 5	(410) 3
(132) Aethra . . 21	(319) Leona . . 7	(383) 5	(411) 3
(155) Scylla . . 19	(320) Katharina . 6	(388) 4	(412) Elisabetha 3
(156) Xanthippe 19	(323) Brucia . . 5	(392) Wilhelmina 4	(413) Edburga . 3
(157) Dejanira . 18	(327) Columbia . 6	(393) 4	(414) 3
(193) Ambrosia 16	(328) Gudrun . . 6	(394) 4	(415) 3
(220) Stephania 13	(330) Adalberta . 5	(395) 4	(417) 3
(285) Regina . 8	(340) Eduarda . 5	(396) 4	(418) 2
(290) Bruna . . 7	(341) California . 5	(398) 4	(421) Zähringia . 2
(293) Brasilia . 7	(353) 5	(399) 4	(422) Berolina . 2
(296) Phaëtusa 6	(355) 5	(400) 4	(423) 2
(307) Nike . . . 7	(357) 5	(401) Ottilia . . 4	(424) 2
(309) Fraternitas 7	(359) 5	(404) 3	(425) 2
(310) Margarita 7	(360) 5	(406) 3	(426) 2
(314) Rosalia . 6	(361) 6	(407) 3	(427) 2
(315) Constantia 6	(368) 5	(408) 3	

und aufserdem die Planeten (428) bis (436) und (1898 *EC*) deren zweite, auf die Entdeckungs-Erscheinung folgende Opposition noch bevorsteht.

In den vorstehenden Angaben bezeichnen die hinter den Planetennamen befindlichen Ziffern die Anzahl der bisher, mit Einschlufs der Entdeckungs-Erscheinung, stattgefundenen Oppositionen.

Anhang I.

Vorläufige Verbesserungen der Oerter des Fixstern-Verzeichnisses im Jahrbuch S. 149 ff. für 1901,0.

Nachstehende vorläufige Verbesserungen der Oerter der 622 Sterne des Fundamental-Kataloges innerhalb seines Systemes sind der Redaction des Jahrbuchs von Herrn A. Auwers zur Verfügung gestellt worden und werden bis zur Fertigstellung des definitiven Fundamental-Kataloges für jedes Jahr an dieser Stelle mitgetheilt werden. Die aufgeführten Werthe schließen sich an die A. N. 3508/09 von Herrn Auwers mitgetheilten an, außer für Sirius und Procyon, für welche hier sogleich die Reduction auf den hellen Stern mit der fortschreitenden Verbesserung zusammen in einer Zahl gegeben wird. Dabei sind an Stelle der oben p. 154, 155 aufgeführten Uebertragungen Werthe angewandt, welche für Sirius nach A. N. 3085 (El. V*), für Procyon nach vorläufigen neuen elliptischen Elementen (B. Berl. Ak. 1898) angenommen wurden.

Name	Nr. des Fund.-Kat.	1901.0 Δα	1901.0 Δδ	Name	Nr. des Fund.-Kat.	1901.0 Δα	1901.0 Δδ
		s	"			s	"
α Andromed.	1	+0.002	−0.21	ϑ Ceti	21	−0.013	−0.32
β Cassiopejae	2	+0.005	−0.07	δ Cassiopejae	20	−0.030	−1.18
22 Andromed.	337	−0.076	+0.55	α Ursae min.	19	+0.069	−0.03
γ Pegasi	3	−0.013	+0.10	η Piscium	22	+0.019	+0.14
Br. 6	338	+0.765	+0.21	40 Cassiopejae	347	+0.064	−0.19
ι Ceti	4	+0.018	+0.20	υ Persei	23	+0.001	−0.35
12 Ceti	339	−0.028	+0.07	43 Cassiopejae	348	+0.007	−0.13
κ Cassiopejae	5	−0.050	+0.44	ν Piscium	349	+0.021	−0.12
ζ Cassiopejae	6	−0.021	−0.10	φ Persei	24	+0.020	+0.17
π Andromed.	7	+0.029	+0.01	τ Ceti	542	+0.035	+0.08
ε Andromed.	8	−0.012	+0.05	ο Piscium	25	+0.023	+0.06
δ Andromed.	9	−0.045	−0.39	Lac. ε Sculpt.	543	+0.028	+0.25
α Cassiopejae	10	+0.067	−0.07	ζ Ceti	544	+0.011	−0.17
β Ceti	540	−0.026	+0.37	ε Cassiopejae	26	+0.015	−0.14
21 Cassiopejae	340	+0.038	−0.03	α Trianguli	27	−0.036	−0.12
ο Cassiopejae	341	+0.046	+0.01	γ Arietis	28	+0.026	−0.33
ζ Andromed.	11	+0.024	−0.16	ξ Piscium	29	−0.016	+0.14
η Cassiopejae	12	+0.437	−1.73	β Arietis	30	+0.013	+0.02
δ Piscium	342	+0.004	+0.22	50 Cassiopejae	31	−0.014	−0.11
Br. 82	343	+0.220	+0.16	υ Ceti	545	+0.023	+0.47
γ Cassiopejae	13	+0.042	+0.09	γ Andromed.	32	+0.028	+0.08
μ Andromed.	14	−0.124	−0.26	α Arietis	33	−0.010	−0.29
43 H. Cephei	344	+0.168	−0.32	β Trianguli	34	−0.039	−0.04
ε Piscium	15	−0.010	−0.32	55 Cassiopejae	350	−0.007	+0.09
η Ceti	541	−0.020	+0.04	6 Persei	351	+0.004	−0.16
44 H. Cephei	345	+0.002	+0.52	Lac. μ Forn.	546	+0.052	+0.30
β Andromed.	16	−0.033	−0.52	γ Trianguli	352	−0.002	−0.06
τ Piscium	17	−0.019	−0.94	67 Ceti	353	+0.009	−0.22
υ Piscium	18	+0.016	−0.27	ϑ Arietis	354	+0.010	0.00
ψ Cassiopejae	346	−0.008	+0.67	ο Ceti	35	+0.022	+0.57

Name	Nr. des Fund.-Kat.	1901.0 Δα	1901.0 Δδ	Name	Nr. des Fund.-Kat.	1901.0 Δα	1901.0 Δδ
ι Cassiopejae	36	+0.039	+0.14	τ⁶ Eridani	551	+0.005	+0.93
ξ² Ceti	37	+0.001	−0.07	27 Tauri	62	+0.010	+0.41
36 H. Cassiop.	38	−0.173	−0.24	ζ Persei	63	0.000	−0.08
ν Arietis	355	+0.001	−0.28	9 H. Camelop.	365	−0.016	−1.09
δ Ceti	39	−0.045	+0.62	ε Persei	64	+0.026	−0.28
Br. 366	356	−0.023	+0.01	ξ Persei	65	+0.012	+0.39
ϑ Persei	40	0.000	+0.13	γ Eridani	552	−0.004	+0.09
35 Arietis	357	+0.020	+0.19	λ Tauri	66	−0.014	+0.11
γ Ceti	41	+0.009	+0.50	ν Tauri	67	−0.038	+0.30
π Ceti	547	+0.007	−0.05	c Persei	69	+0.043	−0.03
μ Ceti	42	+0.047	−0.03	Gr. 750	68	+0.207	+0.44
η Persei	43	−0.032	+0.71	ο¹ Eridani	366	−0.024	−0.09
41 Arietis	44	+0.020	+0.43	54 Persei	367	+0.022	+0.15
τ² Eridani	548	−0.003	+0.42	γ Tauri	70	−0.012	+0.48
τ Persei	45	+0.007	−0.05	δ Tauri	71	−0.006	+0.03
η Eridani	46	−0.014	−0.22	ε Tauri	72	−0.002	+0.07
47 H. Cephei	358	−0.154	−0.44	1 Camel. seq.	368	−0.117	−0.29
α Ceti	47	+0.021	−0.01	α Tauri	73	+0.012	+0.10
γ Persei	48	+0.007	−0.26	ν Eridani	74	+0.039	−0.52
ρ Persei	49	−0.004	−0.13	53 Eridani	553	+0.054	+0.31
β Persei	50	+0.038	−0.35	Gr. 848	369	−0.087	−0.45
ι Persei	51	+0.014	−0.58	τ Tauri	370	+0.020	−0.35
δ Arietis	359	+0.003	+0.27	4 Camelop.	371	+0.071	+0.07
48 H. Cephei	360	+0.321	−0.32	μ Eridani	75	+0.013	−0.29
12 Eridani	549	−0.072	−0.91	9 Camelop.	76	+0.032	+0.01
α Persei	52	−0.013	+0.07	π⁴ Orionis	77	−0.006	+0.23
ο Tauri	53	−0.023	−0.06	π⁵ Orionis	78	−0.046	+0.34
2 H. Camelop.	361	+0.004	−0.53	ι Aurigae	79	−0.020	−0.43
ξ Tauri	54	−0.035	+0.63	10 Camelop.	80	−0.066	−0.04
σ Persei	362	−0.003	−0.20	ε Aurigae	81	+0.030	−0.05
f Tauri	55	+0.002	−0.24	ζ Aurigae	82	−0.020	−0.53
ε Eridani	56	+0.008	+0.60	ι Tauri	372	+0.004	−0.05
Gr. 716	363	−0.036	−1.40	η Aurigae	83	−0.021	−0.30
δ Persei	57	+0.024	−0.18	ε Leporis	554	+0.018	+0.08
ο Persei	58	+0.051	−0.11	β Eridani	84	−0.026	−0.55
γ Persei	59	−0.029	+0.28	λ Eridani	85	−0.029	−0.49
δ Eridani	550	−0.018	+0.90	19 H. Camelop.	373	+0.096	+0.07
17 Tauri	60	+0.014	−0.02	μ Aurigae	374	+0.049	+0.09
5 H. Camelop.	364	+0.229	+0.02	α Aurigae	86	−0.023	−0.03
η Tauri	61	+0.018	−0.23	β Orionis	87	+0.003	+0.13

Name	Nr. des Fund.-Kat.	1901.0		Name	Nr. des Fund.-Kat.	1901.0	
		Δα	Δδ			Δα	Δδ
τ Orionis	88	+0.042	+0.10	23 H. Camelop.	387	$-0^{s}.127$	$+1''.07$
η Orionis med.	89	+0.033	−0.08	ξ² Canis maj.	563	−0.031	−0.74
γ Orionis	91	+0.024	−0.04	51 Aurigae	389	+0.020	−0.06
β Tauri	90	+0.008	+0.27	γ Geminorum	107	−0.012	+0.08
17 Camelop.	375	−0.008	−0.12	*S* Monocerotis	108	−0.021	+0.19
β Leporis	555	+0.002	−0.43	ε Geminorum	109	+0.029	−0.06
Gr. 966	92	−0.170	+1.05	ψ⁵ Aurigae	390	+0.110	+0.16
δ Orionis	93	+0.001	+0.36	ξ Geminorum	110	+0.005	+0.27
α Leporis	556	+0.012	−0.14	α Canis maj.	564	−0.140*	+1.03*
φ¹ Orionis	376	+0.019	+0.23	18 Monocerotis	392	−0.006	+0.36
ϑ¹ Orionis	94	+0.067	−0.41	43 Camelop.	391	+0.005	−1.56
ϑ² Orionis	95	−0.027	+0.13	24 H. Camelop.	393	−0.083	−0.09
ι Orionis	96	−0.018	−0.01	ϑ Geminorum	112	−0.027	−0.15
ε Orionis	97	+0.023	−0.27	15 Lyncis	394	−0.019	−0.34
ζ Tauri	98	−0.005	+0.13	ϑ Canis maj.	565	0.000	+0.07
σ Orionis	99	+0.011	+0.36	51 H. Cephei	111	−0.558	+0.12
ο Aurigae	377	+0.057	+0.78	ε Canis maj.	566	+0.001	−0.44
γ Leporis	557	+0.064	−0.38	ζ Geminorum	113	−0.007	+0.15
130 Tauri	378	+0.044	−0.65	γ Canis maj.	567	+0.049	+0.22
ζ Leporis	558	−0.014	−0.24	δ Canis maj.	568	−0.003	−0.12
ϰ Orionis	100	+0.031	−0.17	63 Aurigae	395	−0.016	−0.46
ν Aurigae	101	+0.102	−0.36	64 Aurigae	396	−0.120	−0.38
δ Leporis	559	−0.024	+0.87	λ Geminorum	114	−0.010	−0.23
α Orionis	102	0.000	−0.18	δ Geminorum	115	+0.016	−0.17
δ Aurigae	379	+0.043	−0.18	19 Lyncis seq.	397	+0.083	−0.21
η Leporis	560	+0.023	−0.33	ι Geminorum	117	+0.005	+0.06
β Aurigae	103	+0.016	+0.15	Gr. 1308	116	−0.209	+0.85
ϑ Aurigae	104	−0.023	−0.11	β Canis min.	118	−0.010	−0.03
66 Orionis	380	−0.036	+0.14	ρ Geminorum	398	+0.053	−0.14
ν Orionis	382	−0.003	−0.19	α Geminorum	119	+0.052	+0.51
36 Camelop.	381	+0.223	+0.30	25 Monocerotis	569	+0.123	−0.11
22 H. Camelop.	383	+0.051	−0.05	α Canis min.	120	+0.018*	−0.37*
η Geminorum	105	−0.010	+0.01	24 Lyncis	399	−0.069	+0.13
2 Lyncis	384	−0.070	−0.53	ϰ Geminorum	121	+0.011	+0.34
μ Geminorum	106	−0.001	−0.22	β Geminorum	122	−0.002	+0.11
ψ¹ Aurigae	385	−0.008	+0.24	π Geminorum	400	−0.018	−0.47
β Canis maj.	561	−0.008	−0.08	26 Lyncis	402	+0.016	+0.67
8 Monocerotis	386	−0.064	+0.22	Gr. 1374	401	+0.141	−0.25
10 Monocerotis	562	+0.005	+0.47	53 Camelop.	403	−0.155	+0.16
8 Lyncis	388	+0.059	−0.77	χ Geminorum	404	+0.011	+0.01

* S. Vorbemerkung. — Die Correctionen der S. 230, 235 gegebenen Ephemeriden werden für die Mitte des Jahres: $-0^{s}.029$ $+0''.12$, bezw. $-0^{s}.022$ $+0''.42$.

Name	Nr. des Fund.-Kat.	1901.0 Δα	1901.0 Δδ	Name	Nr. des Fund.-Kat.	1901.0 Δα	1901.0 Δδ
		s	″			s	″
27 Lyncis	405	+0.132	−0.17	μ Leonis	144	+0.034	+0.23
ι Navis	570	+0.009	−0.20	Gr. 1586	421	+0.061	−0.40
Br. 1147	406	−0.022	+0.07	19 Leonis min.	422	+0.011	−0.41
20 Navis	571	−0.006	+0.86	π Leonis	423	+0.016	+0.16
β Cancri	123	+0.004	+0.08	η Leonis	145	−0.108	+0.37
31 Lyncis	407	−0.089	+0.16	α Leonis	146	+0.022	−0.10
Br. 1197	124	+0.026	−0.46	λ Hydrae	573	−0.007	−0.17
o Ursae maj.	125	+0.024	−0.02	λ Ursae maj.	147	+0.010	+0.63
Gr. 1450	408	+0.127	+1.59	ζ Leonis	148	+0.017	−0.32
η Cancri	409	+0.004	+0.25	μ Ursae maj.	149	−0.007	+0.09
Gr. 1446	410	−0.069	−0.31	30 H. Urs. maj.	424	+0.088	−0.47
Gr. 1460	411	+0.210	−0.11	30 H. Camelop.	425	+0.075	−0.23
δ Cancri	126	+0.021	+0.10	μ Hydrae	574	−0.011	−0.20
ι Cancri	127	−0.019	−0.29	31 Leonis min.	426	+0.012	−0.39
ε Hydrae	128	−0.016	−0.49	Lac. α Antliae	575	+0.018	+0.82
σ^2 Cancri med.	412	−0.009	+0.44	36 Ursae maj.	427	+0.038	−0.03
ζ Hydrae	129	−0.032	+0.07	9 H. Draconis	150	+0.206	+0.01
ι Ursae maj.	130	−0.033	+0.16	ρ Leonis	151	−0.016	−0.03
α Cancri	131	+0.017	+0.10	37 Ursae maj.	428	+0.076	−0.21
ρ Ursae maj.	413	−0.106	−0.19	35 H. Urs. maj.	429	−0.174	+0.49
10 Ursae maj.	132	+0.019	+0.25	33 Sextantis	576	+0.105	−0.48
Gr. 1501	414	−0.155	−0.67	41 Leonis min.	430	+0.043	+0.03
κ Ursae maj.	133	−0.026	+0.42	42 Leonis min.	431	+0.055	−0.47
σ^2 Ursae maj.	415	−0.104	−0.30	*l* Leonis	432	−0.004	+0.29
36 Lyncis	416	−0.178	−0.14	ν Hydrae	577	−0.002	−0.14
ϑ Hydrae	134	−0.014	+0.35	46 Leonis min.	152	+0.046	−0.65
38 Lyncis	135	0.000	+0.02	Br. 1508	433	−0.101	−0.09
83 Cancri	417	−0.009	+0.86	β Ursae maj.	153	+0.017	−0.39
40 Lyncis	136	+0.043	+0.16	α Ursae maj.	154	−0.017	−0.20
α Hydrae	138	−0.013	−0.47	χ Leonis	434	+0.036	−0.23
1 H. Draconis	137	+0.306	−0.12	ψ Ursae maj.	155	−0.007	+0.30
h Ursae maj.	139	+0.067	−0.04	β Crateris	578	+0.021	+0.08
d Ursae maj.	418	−0.072	−0.10	δ Leonis	156	−0.017	−0.19
ϑ Ursae maj.	140	+0.005	+0.74	ϑ Leonis	157	+0.019	−0.34
10 Leonis min.	419	−0.028	−0.04	Gr. 1757	435	−0.054	−0.40
Gr. 1564	420	+0.008	−0.06	ξ Urs. maj. m.	158	+0.064	+0.19
o Leonis	141	−0.018	−0.04	ν Ursae maj.	159	−0.155	−0.43
ε Leonis	142	+0.002	+0.08	δ Crateris	579	+0.019	+0.24
υ Ursae maj.	143	−0.026	−0.38	σ Leonis	160	−0.017	+0.10
6 Sextantis	572	−0.045	−0.05	Gr. 1771	436	+0.393	+0.31

Name	Nr. des Fund.-Kat.	1901.0		Name	Nr. des Fund.-Kat.	1901.0	
		Δα	Δδ			Δα	Δδ
ι Leonis	161	+0.052	−0.26	α Virginis	587	+0.007	−0.06
γ Crateris	580	+0.027	−0.53	Gr. 2001	452	+0.083	−0.15
58 Ursae maj.	437	+0.033	+0.24	69 H. Urs. maj.	453	−0.081	+0.71
λ Draconis	162	−0.090	−0.03	ζ Virginis	179	+0.003	−0.34
ξ Hydrae	581	−0.028	−0.53	17 H. Can. ven.	454	+0.047	+0.25
υ Leonis	438	+0.009	−0.03	Gr. 2029	455	−0.007	−0.51
3 Draconis	439	−0.116	−0.01	τ Bootis	180	−0.026	+0.08
χ Ursae maj.	163	−0.014	−0.13	η Ursae maj.	181	−0.053	−0.07
β Leonis	164	+0.008	−0.07	89 Virginis	588	+0.018	+0.52
β Virginis	165	+0.009	+0.09	i Draconis	456	+0.033	+0.22
γ Ursae maj.	166	+0.016	0.00	η Bootis	182	−0.029	−0.20
o Virginis	167	−0.014	+0.12	τ Virginis	183	+0.011	+0.79
Gr. 1852	440	−0.045	+0.30	11 Bootis	457	+0.003	−0.08
ε Corvi	582	−0.011	+0.06	α Draconis	184	+0.002	−0.20
4 H. Draconis	168	−0.036	−0.39	d Bootis	458	−0.012	+0.71
δ Ursae maj.	169	−0.034	+0.24	κ Virginis	185	−0.032	+0.11
γ Corvi	583	−0.019	−0.38	4 Ursae min.	459	+0.070	−0.42
2 Canum ven.	441	−0.017	−0.41	ι Virginis	186	+0.017	+0.04
η Virginis	170	−0.001	+0.52	α Bootis	187	+0.005	−0.27
6 Canum ven.	442	−0.144	+0.53	λ Bootis	188	+0.039	+0.10
δ Corvi	584	−0.075	+0.57	ι Bootis	189	+0.010	+0.01
20 Comae	443	−0.105	−0.35	ϑ Bootis	190	+0.033	−0.02
74 Ursae maj.	444	−0.146	−0.29	φ Virginis	191	−0.008	+0.10
8 Canum ven.	445	+0.032	+0.20	ρ Bootis	192	−0.007	+0.07
β Corvi	585	+0.060	+0.19	γ Bootis	193	+0.007	+0.19
κ Draconis	171	+0.106	+0.29	Gr. 2125	460	+0.060	+1.38
24 Comae seq.	446	−0.022	+0.04	33 Bootis	461	+0.002	+1.61
γ Virgin. med.	172	−0.037	+0.16	π Bootis pr.	194	+0.060	+1.55
76 Ursae maj.	447	−0.024	+0.02	ζ Bootis med.	195	+0.036	−0.05
ε Ursae maj.	173	+0.054	+0.92	μ Virginis	196	−0.005	−0.12
δ Virginis	174	+0.029	−0.25	109 Virginis	197	+0.018	−0.04
12 Can. ven. sq.	175	+0.013	−0.23	8 Librae	589	+0.039	+0.89
8 Draconis	448	−0.132	+0.38	α Librae	590	+0.008	+0.27
ε Virginis	176	−0.022	+0.12	Gr. 2164	462	−0.002	−1.06
ϑ Virginis	449	+0.019	−0.10	β Ursae min.	198	−0.017	+0.14
17 Canum ven.	450	+0.043	+0.03	P. XIV, 221	463	−0.049	−0.63
43 Comae	177	−0.026	−0.12	2 H. Urs. min.	464	−0.261	−1.10
20 Canum ven.	451	+0.037	−0.19	β Bootis	199	−0.007	−0.15
γ Hydrae	586	+0.096	−0.32	γ Scorpii	591	+0.002	−0.65
ζ Urs. maj. pr.	178	+0.037	−0.01	ψ Bootis	465	+0.016	+0.26

Name	Nr. des Fund.-Kat.	1901.0		Name	Nr. des Fund.-Kat.	1901.0	
		Δα	Δδ			Δα	Δδ
		s	″			s	″
ι Librae	592	−0.034	+0.29	η Draconis	226	−0.364	+0.46
3 Serpentis	466	−0.045	−0.02	α Scorpii	596	−0.008	+0.22
δ Bootis	201	−0.023	−0.37	λ Ophiuchi	227	−0.031	−0.10
β Librae	200	−0.009	−0.05	β Herculis	228	+0.041	+0.28
1 H. Urs. min.	467	+0.093	−0.08	A Draconis	229	+0.119	−0.22
μ Bootis	202	+0.059	+0.36	σ Herculis	230	+0.025	+0.37
γ Ursae min.	203	−0.290	−0.39	ζ Ophiuchi	597	−0.007	−0.08
τ¹ Serpentis	468	+0.038	−0.77	Gr. 2373	476	−0.241	−0.26
ι Draconis	204	+0.054	−0.40	ζ Herculis	231	+0.004*	−0.38*
β Coron. bor.	205	−0.043	+0.46	η Herculis	232	−0.025	−0.24
ν¹ Bootis	206	−0.024	+0.42	Gr. 2377	477	−0.138	+0.22
ν² Bootis	207	+0.011	+0.51	49 Herculis	478	−0.032	+0.11
ϑ Coron. bor.	208	+0.117	+0.40	κ Ophiuchi	233	+0.009	−0.42
γ Librae	593	−0.056	−0.22	ε Ursae min.	235	−0.049	+0.08
α Coron. bor.	209	−0.017	+0.17	ε Herculis	234	+0.002	+0.25
φ Bootis	469	−0.023	+0.47	60 Herculis	479	−0.004	+0.04
ζ Cor. bor. (sq.)	210	+0.060	−0.15	Gr. 2415	480	+0.108	−0.38
γ Coron. bor.	211	−0.007	+0.48	η Ophiuchi	598	+0.013	+0.08
α Serpentis	212	−0.003	+0.12	ζ Draconis	236	−0.042	−0.29
β Serpentis	213	+0.042	−0.36	α Herculis	237	−0.002	+0.58
κ Serpentis	215	−0.017	−0.30	δ Herculis	238	+0.009	+0.02
μ Serpentis	214	+0.007	−0.59	π Herculis	239	+0.003	+0.33
12 H. Draconis	470	−0.107	+0.10	ϑ Ophiuchi	599	+0.003	+0.72
ε Serpentis	216	+0.019	+0.28	x Herculis	481	+0.100	+0.53
ζ Ursae min.	217	+0.122	−0.07	β Draconis	240	−0.005	+0.01
γ Serpentis	218	+0.019	0.00	ν¹ Draconis	242	−0.035	−0.04
ε Coron. bor.	219	−0.005	+0.09	ν² Draconis	243	0.000	+0.07
δ Scorpii	594	−0.025	−0.16	α Ophiuchi	241	−0.003	−0.21
Gr. 2296	471	+0.161	+0.13	ξ Serpentis	600	+0.009	−0.38
β Scorpii	595	+0.003	+0.28	f Draconis	482	+0.118	+0.17
ϑ Draconis	220	−0.147	−0.34	ι Herculis	244	−0.052	−0.16
φ Herculis	221	+0.284	−0.24	ω Draconis	483	−0.057	+0.36
δ Ophiuchi	222	+0.008	−0.24	β Ophiuchi	245	+0.005	−0.27
ε Ophiuchi	223	−0.018	+0.42	μ Herculis	246	−0.051	+0.32
19 Ursae min.	472	+0.159	+0.29	γ Ophiuchi	247	+0.033	−0.19
τ Herculis	224	+0.126	−0.15	ψ Drac. (austr.)	484	+0.077	−0.17
γ Herculis	225	+0.024	+0.05	ξ Draconis	248	−0.247	0.00
η Ursae min.	474	−0.066	−0.24	ϑ Herculis	249	+0.065	−0.12
ω Herculis	473	+0.123	−0.78	ν Ophiuchi	250	−0.008	−1.05
Gr. 2343	475	−0.080	+0.42	35 Draconis	485	−0.037	0.00

* Correction für den Hauptstern.

Name	Nr. des Fund.-Kat.	1901.0		Name	Nr. des Fund.-Kat.	1901.0	
		Δα	Δδ			Δα	Δδ
		s	"			s	"
ξ Herculis	251	−0.019	+0.23	β Cygni	275	+0.013	+0.64
γ Draconis	252	+0.020	+0.20	ι Cygni	276	−0.032	+0.01
67 Ophiuchi	253	−0.123	−0.16	Gr. 2900	497	+0.370	−0.35
γ Sagittarii	601	−0.039	+0.63	h Sagittarii	605	+0.053	−0.27
72 Ophiuchi	254	+0.016	−0.09	ϑ Cygni	498	−0.016	−0.12
o Herculis	255	−0.007	+0.24	15 Cygni	499	−0.049	+0.05
δ Ursae min.	256	−0.129	+0.24	γ Aquilae	277	+0.006	−0.03
μ Sagittarii	602	−0.015	+0.25	δ Cygni	278	−0.034	+0.04
Gr. 2533	486	+0.193	−0.57	δ Sagittae	279	+0.032	−0.70
36 Draconis	487	+0.056	+0.26	α Aquilae	280	−0.006	+0.21
η Serpentis	257	+0.033	−0.56	η Aquilae	281	+0.045	−0.08
109 Herculis	258	−0.007	+0.23	ε Draconis	282	+0.096	−0.02
φ Draconis	489	−0.117	−0.15	β Aquilae	283	+0.017	−0.02
b Draconis	488	+0.057	+0.34	ψ Cygni	285	+0.015	+0.35
χ Draconis	259	+0.069	−0.25	γ Sagittae	286	+0.006	−0.30
α Lyrae	260	−0.033	−0.45	ϑ Aquilae	287	+0.028	+0.02
Gr. 2655	490	−0.244	+0.57	o¹seq. Cygni	288	−0.006	−0.13
Gr. 2640	491	+0.112	+1.05	33 Cygni	500	−0.117	+0.83
ε Lyrae a.pr.	261	+0.083	−0.59	α¹ Capricorni	606	+0.024	−0.47
5 Lyrae med.	262	+0.030	−0.24	κ Cephei	502	+0.138	+0.25
110 Herculis	263	+0.027	+0.59	24 Vulpeculae	501	−0.001	+0.76
β Lyrae	264	+0.005	−0.46	α² Capricorni	607	+0.018	−0.16
σ Sagittarii	603	−0.026	−0.12	β Capricorni	608	−0.007	−0.12
o Draconis	265	+0.022	−0.33	γ Cygni	289	−0.047	−0.53
ϑ Serpent. pr.	266	+0.007	−0.83	ρ Capricorni	609	−0.015	−0.03
R Lyrae	492	+0.006	+0.22	ϑ Cephei	291	+0.021	+0.30
ε Aquilae	267	−0.025	+0.44	ε Delphini	290	+0.003	+0.09
γ Lyrae	268	+0.031	−0.13	73 Draconis	504	−0.012	0.00
υ Draconis	493	−0.012	+0.18	β Delphini	292	+0.027	−0.01
ζ Aquilae	270	+0.023	−0.01	κ Delphini	503	−0.002	+0.24
λ Aquilae	269	+0.024	+0.04	υ Capricorni	610	−0.001	−0.94
ι Lyrae	494	−0.049	−0.30	α Delphini	293	+0.006	+0.05
π Sagittarii	604	−0.010	+0.22	α Cygni	294	−0.017	−0.22
δ Draconis	271	+0.006	−0.07	δ Delphini	295	−0.005	−0.14
ϑ Lyrae	496	+0.106	+0.44	γ Delphini sq.	296	−0.002	+0.07
ω Aquilae	495	−0.012	−0.11	ε Cygni	298	−0.017	−0.06
κ Cygni	272	−0.004	+0.03	ε Aquarii	297	−0.001	+0.11
τ Draconis	273	−0.043	−0.26	6 H. Cephei	505	+0.078	+0.24
δ Aquilae	274	−0.004	+0.12	η Cephei	299	+0.027	−0.05
λ Ursae min.	284	−0.104	+0.48	λ Cygni	506	+0.023	−0.50

Name	Nr. des Fund.-Kat.	1901.0		Name	Nr. des Fund.-Kat.	1901.0	
		Δα	Δδ			Δα	Δδ
76 Draconis	508	+0.012	+0.32	3 Lacertae	524	+0.027	+0.13
32 Vulpeculae	507	−0.022	+0.22	δ Cephei	318	−0.015	−0.29
Br. 2749	509	−0.171	−0.09	7 Lacertae	319	+0.025	+0.22
ν Cygni	300	−0.008	−0.70	η Aquarii	320	+0.012	0.00
ξ Cygni	301	−0.039	0.00	31 Cephei	525	−0.162	−0.54
61 Cygni pr.	302	+0.188	+0.30	10 Lacertae	526	−0.013	−0.25
ν Aquarii	611	+0.015	+0.08	30 Cephei	527	+0.057	+0.39
Br. 2777	510	+0.020	−0.06	ζ Pegasi	321	−0.017	+0.40
ζ Cygni	303	+0.023	+0.38	η Pegasi	322	−0.020	−0.30
Gr. 3415	511	−0.026	+0.32	13 Lacertae	528	+0.036	+0.25
τ Cygni	305	+0.004	−0.62	λ Pegasi	323	−0.009	−0.14
α Equulei	304	+0.019	−0.23	τ Aquarii	617	+0.013	+0.65
α Cephei	306	−0.023	+0.73	μ Pegasi	324	−0.002	+0.14
1 Pegasi	512	−0.032	−0.15	ι Cephei	325	+0.063	+0.21
ζ Capricorni	612	−0.020	+0.68	λ Aquarii	326	+0.020	+0.16
g Cygni	513	+0.037	+0.33	δ Aquarii	618	+0.006	−0.32
β Aquarii	307	−0.006	+0.13	α Piscis austr.	619	+0.013	−0.08
β Cephei	308	−0.036	+0.13	ο Andromed.	327	+0.014	−0.32
74 Cygni	514	−0.020	+0.45	β Pegasi	328	+0.003	+0.34
γ Capricorni	613	−0.014	−0.19	α Pegasi	329	+0.003	−0.27
13 H. Cephei	515	+0.002	+0.17	c^2 Aquarii	620	−0.029	−0.67
ε Pegasi	309	−0.020	−0.23	π Cephei	529	−0.054	−0.03
κ Pegasi	310	+0.055	−0.07	Br. 3077	530	+0.061	+0.10
11 Cephei	516	+0.030	−0.05	γ Piscium	330	+0.015	−0.09
λ Capricorni	614	−0.034	+1.01	τ Pegasi	531	+0.003	+0.42
δ Capricorni	615	−0.024	+0.16	υ Pegasi	532	+0.055	−0.13
π^2 Cygni	517	−0.045	+0.15	4 Cassiopejae	533	+0.014	+0.32
16 Pegasi	518	−0.018	+0.06	κ Piscium	534	+0.022	+0.25
20 Pegasi	519	−0.036	+0.24	70 Pegasi	535	+0.032	+0.32
α Aquarii	311	+0.018	−0.19	72 Pegasi	536	+0.035	+0.09
ι Aquarii	616	+0.030	−0.19	λ Andromed.	331	−0.070	−0.06
20 Cephei	520	+0.040	−0.40	ι Andromed.	332	−0.022	+0.22
ι Pegasi	312	−0.002	+0.18	ι Piscium	333	+0.003	+0.20
27 Pegasi	313	−0.003	−0.20	γ Cephei	334	+0.016	+0.50
ϑ Pegasi	314	−0.013	−0.30	κ Andromed.	335	−0.028	−0.27
π Pegasi	315	−0.002	−0.62	ω^2 Aquarii	621	−0.008	−0.16
ζ Cephei	316	+0.068	−0.01	41 H. Cephei	537	+0.152	+0.03
24 Cephei	521	+0.093	−0.34	Lac. δ Sculpt.	622	+0.063	−0.52
ϑ Aquarii	522	−0.012	−0.14	φ Pegasi	538	+0.041	+0.72
γ Aquarii	317	+0.001	−0.25	ρ Cassiopejae	539	+0.063	+0.43
31 Pegasi	523	+0.010	−0.01	ω Piscium	336	+0.004	−0.10

Anhang II.

Mittlere Oerter von 303 Sternen

nach dem definitiven Fundamental-Katalog für die südlichen Zonen der Astronomischen Gesellschaft für 1900,0.

In Ergänzung und zum Abschlufs der in den Berliner Jahrbüchern für 1891 bis 1900 mitgetheilten mittleren Positionen für die Epochen 1889.0, 1890.0.... 1900.0 nach dem vorläufigen Fundamental-Katalog für die südlichen Zonen (A. N. Nr. 2890/91) werden im Folgenden die Oerter für 1900.0 nach dem zur definitiven Reduction der südlichen Zonen aufgestellten Katalog gegeben, wie sich dieser nach Anbringung der in A. N. Nr. 3511 von A. Auwers mitgetheilten Correctionen ergiebt. Die Correctionen selbst für die Epochen 1885.0 und 1900.0 sind hier nochmals abgedruckt, ebenso wie die verbesserten Eigenbewegungen; diese letzteren sind für die mit * versehenen 135 Sterne, welche auch im Fundamental-Katalog des Jahrbuchs vorkommen, aus A. N. Nr. 3508/09 entnommen.

Das System des nachstehenden Kataloges stimmt in AR. mit dem des A. G. C., also mit dem des Jahrbuch-Verzeichnisses (p. 149 ff.) überein; in Decl. dagegen unterscheidet es sich von diesem um den Betrag

$$+0''.15 - 0''.015\ \delta^{\circ}$$

(für die Sterne nördlich vom Aequator um $+0''.15$).

Nr.	Name	Gr.	Mittl. AR. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.
			h m s	s	s	s
1	4 Ceti	6.8	0 2 36.696	+3.0719	0.0000	+0.0001
2	7 Ceti	4.6	0 9 33.683	+3.0530	−0.0081	−0.0028
* 3	ι Ceti	3.3	0 14 19.949	+3.0589	−0.0023	−0.0028
4	9 Ceti	6.0	0 17 44.349	+3.0493	−0.0041	+0.0257
5	Lal. 628	6.4	0 23 20.222	+3.0209	−0.0080	−0.0095
* 6	12 Ceti	6.0	0 24 56.084	+3.0613	+0.0008	−0.0015
7	P. 0. 91	5.3	0 25 22.683	+3.0059	−0.0098	−0.0038
8	15 Ceti	6.8	0 32 57.717	+3.0692	+0.0030	−0.0048
* 9	β Ceti	2.0	0 38 34.175	+2.9976	−0.0055	+0.0141
10	19 Ceti	5.4	0 45 7.053	+3.0210	−0.0014	−0.0173
11	22 Ceti	5.8	0 51 0.597	+3.0110	−0.0014	−0.0034
12	Lal. 1691	7.0	0 53 47.953	+2.9585	−0.0053	+0.0016
13	26 Ceti	6.1	0 58 40.177	+3.0776	+0.0053	+0.0068
*14	η Ceti	3.1	1 3 33.495	+3.0035	0.0000	+0.0121
15	39 Ceti	6.0	1 11 31.608	+3.0510	+0.0040	−0.0089
*16	ϑ Ceti	3.0	1 19 1.462	+3.0036	+0.0018	−0.0069
17	48 Ceti	5.3	1 24 48.298	+2.8759	−0.0038	+0.0024
18	50 Ceti	5.8	1 31 6.338	+2.9252	−0.0007	+0.0002
*19	ν Piscium	4.6	1 36 13.557	+3.1202	+0.0091	−0.0028
20	P. I. 167	5.8	1 40 58.047	+3.0104	+0.0038	−0.0028
*21	ε Sculptoris	5.1	1 40 57.672	+2.8002	−0.0037	+0.0079
*22	ζ Ceti	3.0	1 46 31.415	+2.9581	+0.0023	+0.0010
*23	ξ Piscium	4.0	1 48 22.634	+3.1014	+0.0083	0.0000
*24	υ Ceti	4.0	1 55 17.564	+2.8180	−0.0013	+0.0076
25	61 Ceti	6.5	1 58 40.986	+3.0632	+0.0069	+0.0041
27	Lal. 3979	6.4	2 4 1.155	+2.8456	+0.0003	−0.0026
26	62 Ceti	7.4	2 4 5.547	+3.0390	+0.0063	−0.0075
*28	67 Ceti	6.0	2 11 59.674	+2.9848	+0.0049	+0.0044
*29	ο Ceti	var.[1]	2 14 17.608	+3.0284	+0.0064	−0.0016
30	κ Fornacis	5.2	2 17 57.973	+2.7314	−0.0007	+0.0125
31	ρ Ceti	5.0	2 21 7.094	+2.8981	+0.0030	−0.0028
32	σ Ceti	5.0	2 27 20.816	+2.8477	+0.0022	−0.0071
33	81 Ceti	6.0	2 32 39.478	+3.0174	+0.0066	+0.0018
*34	δ Ceti	4.0	2 34 21.323	+3.0712	+0.0081	−0.0009
*35	π Ceti	4.0	2 39 21.736	+2.8547	+0.0033	−0.0025
*36	τ² Eridani	4.6	2 46 30.113	+2.7244	+0.0016	−0.0053
*37	η Eridani	3.0	2 51 32.463	+2.9238	+0.0052	+0.0037
*38	α Ceti	2.3	2 57 3.023	+3.1330	+0.0098	−0.0024
39	τ³ Eridani	3.8	2 57 58.924	+2.6553	+0.0015	−0.0126
40	94 Ceti	5.3	3 7 40.173	+3.0460	+0.0077	+0.0124

[1]) Gröſse zwischen 1.7 u. 9.

Mittl. Decl. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.	Correct. des vorläufigen Kataloges Δα 1885	Δα 1900	Δδ 1885	Δδ 1900
° ′ ″	″	″	″	s	s	″	″
— 3 6 19.51	+20.051	—0.009	+0.015	—0.009	—0.016	—0.22	—0.38
—19 29 13.15	+20.035	—0.025	—0.063	+0.007	+0.014	—0.29	—0.30
— 9 22 41.80	+20.013	—0.034	—0.026	+0.019	+0.025	—0.12	—0.04
—12 45 56.90	+19.992	—0.039	+0.077	+0.019	+0.012	—0.23	—0.02
—20 53 6.88	+19.948	—0.049	—0.103	+0.011	+0.024	—0.19	—0.08
— 4 30 35.37	+19.933	—0.055	—0.002	—0.008	—0.027	—0.38	—0.30
—24 20 26.96	+19.929	—0.052	+0.032	+0.008	+0.004	—0.34	—0.26
— 1 3 12.36	+19.845	—0.068	—0.002	—0.003	+0.010	—0.61	—0.40
—18 32 7.73	+19.769	—0.079	+0.043	+0.008	—0.001	—0.33	—0.20
—11 10 58.38	+19.665	—0.089	—0.217	—0.003	+0.005	—0.66	—0.54
—11 48 28.90	+19.557	—0.100	+0.003	+0.016	+0.033	—0.36	—0.03
—20 10 21.41	+19.502	—0.104	—0.046	+0.004	—0.010	—0.44	—0.47
+ 0 49 50.98	+19.399	—0.118	—0.035	—0.004	+0.003	—0.24	—0.27
—10 42 44.36	+19.286	—0.126	—0.127	—0.008	—0.013	—0.33	—0.37
— 3 1 35.92	+19.083	—0.142	—0.056	—0.002	+0.003	—0.50	—0.44
— 8 41 57.50	+18.872	—0.154	—0.210	0.000	—0.002	—0.22	—0.43
—22 8 47.77	+18.695	—0.156	+0.004	—0.006	+0.004	—0.33	—0.11
—15 54 42.35	+18.488	—0.171	+0.017	+0.003	+0.015	—0.35	—0.33
+ 4 58 53.86	+18.310	—0.191	+0.007	+0.015	+0.024	+0.01	+0.03
— 6 14 0.87	+18.137	—0.191	—0.024	+0.002	—0.034	—0.26	—0.25
—25 33 8.67	+18.138	—0.180	—0.055	—0.004	—0.026	—0.97	—1.30
—10 49 44.46	+17.925	—0.199	—0.025	+0.013	+0.024	—0.34	—0.30
+ 2 41 38.21	+17.851	—0.211	+0.025	+0.002	—0.003	—0.11	—0.03
—21 33 44.41	+17.568	—0.204	—0.010	—0.001	+0.015	—0.49	—0.36
— 0 49 11.39	+17.423	—0.225	—0.044	+0.010	+0.015	—0.40	—0.19
—18 15 11.09	+17.187	—0.217	—0.059	+0.006	+0.022	—0.33	—0.17
— 2 48 16.98	+17.184	—0.231	—0.027	—0.006	—0.025	—0.23	—0.14
— 6 52 58.39	+16.817	—0.242	—0.103	+0.002	+0.014	—0.51	—0.42
— 3 25 53.86	+16.707	—0.249	—0.230	0.000	+0.009	—0.32	—0.32
—24 16 14.51	+16.527	—0.231	—0.053	—0.021	—0.064	0.00	+0.08
—12 44 29.16	+16.369	—0.248	—0.007	—0.008	—0.007	—0.46	—0.61
—15 41 0.81	+16.049	—0.253	—0.116	—0.001	—0.015	—0.01	—0.14
— 3 49 44.41	+15.766	—0.275	—0.034	—0.004	—0.010	—0.48	—0.58
— 0 6 10.04	+15.674	—0.284	+0.004	+0.001	—0.019	—0.37	—0.20
—14 16 55.56	+15.397	—0.272	—0.001	—0.004	0.000	—0.38	—0.25
—21 24 58.33	+14.989	—0.269	—0.015	—0.002	+0.012	—0.68	—0.57
— 9 17 45.88	+14.692	—0.295	—0.214	+0.001	—0.001	—0.40	—0.37
+ 3 41 51.05	+14.360	—0.323	—0.072	+0.008	+0.014	—0.41	—0.41
—24 0 59.43	+14.303	—0.275	—0.049	—0.038	—0.041	—0.37	—0.55
— 1 34 12.07	+13.697	—0.329	—0.048	+0.007	+0.009	—0.64	—0.27

Nr.	Name	Gr.	Mittl. AR. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.
41	ζ Eridani	4.3	3 h 10 m 58.493 s	+2.9126 s	+0.0055 s	—0.0021 s
42	τ⁴ Eridani	3.6	3 15 4.076	+2.6641	+0.0026	+0.0021
43	Lal. 6476	5.8	3 24 52.556	+2.8318	+0.0047	—0.0011
44	17 Eridani	4.8	3 25 39.263	+2.9736	+0.0066	—0.0006
*45	ε Eridani	3.0	3 28 13.085	+2.8907	+0.0055	—0.0675
46	20 Eridani	5.0	3 31 44.002	+2.7303	+0.0038	+0.0007
*47	δ Eridani	3.0	3 38 27.389	+2.8785	+0.0054	—0.0082
48	24 Eridani	5.8	3 39 25.676	+3.0445	+0.0077	—0.0009
*49	τ⁶ Eridani	3.9	3 42 32.699	+2.5919	+0.0031	—0.0130
50	30 Eridani	5.6	3 47 45.194	+2.9617	+0.0064	—0.0016
*51	γ Eridani	3.0	3 53 21.766	+2.7934	+0.0047	+0.0031
*52	ν Tauri	4.0	3 57 50.124	+3.1879	+0.0092	—0.0008
53	Lal. 7685	7.0	4 2 7.974	+2.6874	+0.0040	+0.0004
*54	o¹ Eridani	4.3	4 6 58.991	+2.9261	+0.0058	—0.0005
55	A Eridani	5.0	4 9 38.200	+2.8530	+0.0050	—0.0016
56	Lal. 8205	5.5	4 16 17.239	+2.6141	+0.0037	+0.0005
57	ξ Eridani	5.3	4 18 42.042	+2.9887	+0.0061	—0.0039
58	45 Eridani	5.3	4 26 45.671	+3.0672	+0.0066	—0.0010
*59	ν Eridani	3.3	4 31 19.275	+2.9958	+0.0058	—0.0013
*60	53 Eridani	4.0	4 33 35.949	+2.7513	+0.0042	—0.0066
61	54 Eridani	5.0	4 36 3.993	+2.6218	+0.0037	+0.0001
*62	μ Eridani	3.6	4 40 30.079	+2.9972	+0.0055	0.0000
64	60 Eridani	6.0	4 45 41.145	+2.7000	+0.0039	+0.0018
*63	π⁴ Orionis	4.3	4 45 52.736	+3.1933	+0.0068	—0.0013
*65	π⁵ Orionis	4.0	4 49 2.475	+3.1234	+0.0061	—0.0015
66	64 Eridani	6.0	4 55 16.906	+2.7837	+0.0039	+0.0015
*67	ε Leporis	3.4	5 1 13.648	+2.5370	+0.0033	+0.0011
*68	β Eridani	3.0	5 2 55.960	+2.9545	+0.0045	—0.0075
*69	λ Eridani	4.0	5 4 21.596	+2.8699	+0.0041	—0.0013
*70	β Orionis	1	5 9 43.867	+2.8820	+0.0040	—0.0011
*71	τ Orionis	4.0	5 12 45.002	+2.9132	+0.0040	—0.0022
*72	η Orionis	3.3[1]	5 19 26.904	+3.0155	+0.0040	—0.0008
*73	β Leporis	3.1	5 23 57.605	+2.5701	+0.0030	—0.0010
*74	α Leporis	3.0	5 28 19.148	+2.6452	+0.0029	—0.0008
*75	ι Orionis	3.1	5 30 32.435	+2.9339	+0.0033	—0.0011
*76	ε Orionis	2.0	5 31 8.296	+3.0434	+0.0035	—0.0013
*77	γ Leporis	3.8	5 40 17.648	+2.5216	+0.0026	—0.0213
*78	ζ Leporis	3.6	5 42 25.425	+2.7191	+0.0026	—0.0021
*79	κ Orionis	2.6	5 43 0.782	+2.8447	+0.0027	—0.0010
*80	δ Leporis	3.9	5 47 1.227	+2.5634	+0.0024	+0.0159

[1]) Dupl. 4^m und 5^m, $1''$.

Mittl. Decl. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.	Correct. des vorläufigen Kataloges			
				Δα		Δδ	
				1885	1900	1885	1900
° ′ ″	s	s	s	s	s	″	″
− 9 11 28.00	+13.484	−0.317	+0.053	−0.005	−0.006	−0.45	−0.28
−22 7 18.40	+13.217	−0.296	+0.050	+0.021	+0.033	−0.54	−0.34
−13 1 8.88	+12.559	−0.324	+0.031	+0.015	+0.035	−0.31	−0.14
− 5 25 4.41	+12.506	−0.342	+0.022	−0.006	−0.006	−0.50	−0.21
− 9 47 48.05	+12.330	−0.336	+0.020	−0.013	−0.010	−0.17	−0.03
−17 47 53.36	+12.086	−0.322	−0.012	+0.013	+0.025	−0.40	−0.55
−10 6 6.27	+11.612	−0.346	+0.762	−0.025	−0.029	−0.53	−0.48
− 1 28 42.30	+11.542	−0.365	+0.003	−0.007	+0.002	−0.44	−0.44
−23 32 42.31	+11.318	−0.316	−0.518	−0.024	−0.028	−0.21	−0.04
− 5 39 35.32	+10.939	−0.365	−0.002	−0.008	+0.001	−0.46	−0.38
−13 47 34.45	+10.525	−0.350	−0.101	−0.002	+0.001	−0.36	−0.30
+ 5 42 42.96	+10.190	−0.403	−0.005	0.000	−0.014	−0.38	−0.30
−18 19 11.17	+ 9.864	−0.344	−0.025	−0.012	−0.035	−0.73	−0.64
− 7 5 53.61	+ 9.492	−0.379	+0.089	+0.001	+0.002	+0.08	+0.14
−10 30 16.47	+ 9.287	−0.371	−0.155	0.000	+0.013	−0.60	−0.52
−20 52 40.56	+ 8.768	−0.344	+0.044	−0.002	0.000	−0.39	−0.48
− 3 58 35.69	+ 8.577	−0.396	−0.045	0.000	+0.014	−0.26	−0.27
− 0 15 30.19	+ 7.935	−0.411	+0.006	+0.005	+0.008	−0.28	+0.07
− 3 33 24.78	+ 7.567	−0.407	+0.002	+0.003	+0.018	−0.35	−0.46
−14 29 58.16	+ 7.382	−0.375	−0.162	0.000	−0.016	−0.73	−0.72
−19 51 47.93	+ 7.181	−0.359	−0.079	+0.004	+0.006	−0.54	−0.46
− 3 26 16.47	+ 6.817	−0.413	−0.008	+0.002	+0.004	−0.33	−0.43
−16 23 27.17	+ 6.389	−0.376	+0.073	+0.005	−0.001	−0.56	−0.36
+ 5 26 3.07	+ 6.373	−0.443	0.000	+0.008	+0.005	−0.35	−0.32
+ 2 16 37.23	+ 6.110	−0.435	+0.007	−0.012	−0.028	−0.72	−0.50
−12 41 5.17	+ 5.587	−0.391	−0.081	+0.005	+0.023	−0.59	−0.38
−22 30 19.38	+ 5.086	−0.360	−0.071	+0.007	+0.017	−0.68	−0.73
− 5 12 56.34	+ 4.942	−0.419	−0.075	−0.010	−0.022	−0.17	−0.34
− 8 52 56.04	+ 4.820	−0.408	+0.002	−0.015	−0.032	−0.67	−0.65
− 8 19 1.47	+ 4.363	−0.411	+0.007	+0.040	+0.041	−0.72	−0.69
− 6 57 8.55	+ 4.105	−0.417	+0.012	+0.016	+0.018	−0.43	−0.36
− 2 29 20.59	+ 3.529	−0.434	+0.011	−0.012	−0.003	0.00	0.00
−20 50 20.99	+ 3.140	−0.371	−0.085	−0.008	0.000	−0.31	−0.39
−17 53 37.75	+ 2.763	−0.383	+0.010	+0.001	+0.004	−0.58	−0.57
− 5 58 31.57	+ 2.570	−0.425	+0.005	−0.003	−0.011	−0.44	−0.46
− 1 15 56.64	+ 2.518	−0.441	+0.001	−0.002	+0.005	−0.70	−0.76
−22 28 51.57	+ 1.722	−0.367	−0.376	+0.001	+0.029	−0.52	−0.68
−14 51 32.89	+ 1.536	−0.396	+0.008	−0.018	−0.022	+0.07	+0.05
− 9 42 18.24	+ 1.485	−0.414	+0.004	+0.017	+0.026	−0.51	−0.52
−20 53 15.04	+ 1.135	−0.374	−0.642	−0.009	−0.006	−0.25	−0.06

Nr.	Name	Gr.	Mittl. AR. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.
			h m s	s	s	s
* 81	η Leporis	3.6	5 51 50.981	+2.7350	+0.0023	−0.0041
82	Lal. 11382	5.4	5 55 3.144	+3.0008	+0.0022	−0.0005
* 83	66 Orionis	6.0	5 59 41.307	+3.1700	+0.0020	−0.0021
84	5 Monocerotis	4.6	6 9 58.687	+2.9266	+0.0015	−0.0010
85	6 Monocerotis	6.7	6 12 53.049	+2.8208	+0.0016	−0.0026
* 86	β Canis maj.	2.6	6 18 17.723	+2.6422	+0.0016	−0.0016
* 87	10 Monocerotis	5.0	6 23 1.279	+2.9634	+0.0009	−0.0012
* 88	ξ² Canis maj.	5.0	6 30 51.904	+2.5135	+0.0015	+0.0006
89	P. VI. 203	6.3	6 35 56.930	+3.0863	0.0000	−0.0019
* 90	α Canis maj.[1])	1	6 40 44.565	+2.6810	+0.0010	−0.0379
* 91	18 Monocerotis	5.0	6 42 38.792	+3.1306	−0.0007	−0.0015
* 92	ϑ Canis maj.	4.3	6 49 32.611	+2.7972	+0.0004	−0.0107
93	19 Canis maj.	5.6	6 51 17.257	+2.5981	+0.0010	+0.0029
94	P. VI. 303	5.9	6 54 30.034	+2.4592	+0.0012	−0.0012
95	19 Monocerotis	5.4	6 57 56.891	+2.9801	−0.0006	−0.0015
* 96	γ Canis maj.	4.3	6 59 14.049	+2.7147	+0.0005	−0.0003
97	20 Monocerotis	5.8	7 5 15.651	+2.9812	−0.0008	−0.0016
98	29 Canis maj.	5.3	7 14 30.537	+2.4987	+0.0009	−0.0013
99	P. VII. 85	6.6	7 17 14.327	+2.8776	−0.0007	+0.0003
100	P. VII. 116	6.1	7 23 9.585	+2.8218	−0.0004	−0.0022
101	Lal. 14810	5.3	7 29 46.304	+2.5715	+0.0007	−0.0048
*102	25 Monocerotis	5.3	7 32 18.368	+2.9891	−0.0020	−0.0062
*103	α Canis min.[2])	1	7 34 4.042	+3.1903	−0.0041	−0.0479
104	26 Monocerotis	4.3	7 36 28.126	+2.8725	−0.0011	−0.0074
105	4 Navis	5.0	7 41 20.581	+2.7643	−0.0004	−0.0019
106	9 Navis	6.0	7 47 8.446	+2.7833	−0.0008	−0.0058
107	e Navis	4.8	7 52 33.521	+2.5817	+0.0007	−0.0044
108	27 Monocerotis	5.4	7 54 44.417	+3.0029	−0.0027	−0.0039
*109	ι Navis	3.0	8 3 17.092	+2.5612	+0.0009	−0.0073
*110	20 Navis	6.0	8 8 44.180	+2.7592	−0.0003	−0.0019
111	Lal. 16304	6.5	8 13 39.180	+2.8296	−0.0011	+0.0187
*112	Br. 1197	3.6	8 20 39.828	+3.0043	−0.0032	−0.0053
113	P. VIII. 95	6.0	8 27 1.306	+2.6989	+0.0005	−0.0028
114	Br. 1212	6.1	8 30 35.380	+2.9308	−0.0021	−0.0031
115	6 Hydrae	6.0	8 35 17.172	+2.8490	−0.0010	−0.0078
116	P. VIII. 167	5.3	8 42 10.896	+3.0456	−0.0040	−0.0031
117	Lal. 17333	6.5	8 42 12.044	+2.7350	+0.0006	+0.0017
118	15 Hydrae	6.0	8 46 39.560	+2.9536	−0.0023	−0.0046
119	P. VIII. 227	6.4	8 54 2.373	+2.7993	+0.0004	+0.0177
120	19 Hydrae	5.9	9 3 48.524	+2.9390	−0.0017	−0.0027

[1]) Ort des Schwerpunktes des Systems.
[2]) Ort des Mittelpunktes der Bahn.

Mittl. Decl. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.	Correct. des vorläufigen Kataloges Δα 1885	Δα 1900	Δδ 1885	Δδ 1900
° ′ ″	″	″	″	s	s	″	″
−14 11 9.27	+ 0.713	−0.399	+0.142	−0.009	−0.006	−0.44	−0.50
− 3 4 41.49	+ 0.433	−0.437	−0.079	−0.013	+0.005	−0.63	−0.65
+ 4 9 51.77	+ 0.027	−0.462	−0.006	+0.007	+0.014	−0.02	+0.11
− 6 14 38.88	− 0.873	−0.426	−0.020	+0.005	+0.005	−0.16	+0.03
−10 41 17.59	− 1.127	−0.410	−0.012	−0.022	−0.002	−0.33	−0.33
−17 54 22.24	− 1.599	−0.384	+0.010	−0.003	−0.002	−0.43	−0.32
− 4 42 0.77	− 2.011	−0.429	+0.027	+0.004	+0.002	−0.50	−0.34
−22 53 8.00	− 2.692	−0.362	+0.013	+0.007	−0.010	−0.62	−0.90
+ 0 35 19.13	− 3.132	−0.443	+0.012	−0.021	−0.014	−0.31	−0.21
−16 34 43.99	− 3.546	−0.384	−1.207	+0.002	−0.007	+0.04	−0.11
+ 2 31 18.01	− 3.710	−0.448	−0.012	−0.002	+0.005	−0.24	−0.24
−11 54 47.68	− 4.301	−0.397	−0.002	−0.014	−0.015	−0.40	−0.39
−20 0 32.18	− 4.450	−0.369	+0.052	−0.006	+0.002	−0.56	−0.30
−25 16 41.70	− 4.724	−0.347	+0.045	−0.012	−0.026	−0.60	−0.45
− 4 5 38.80	− 5.016	−0.419	+0.012	−0.012	−0.013	−0.26	−0.50
−15 29 7.50	− 5.125	−0.381	−0.001	−0.001	+0.022	−0.24	−0.22
− 4 4 51.26	− 5.633	−0.415	+0.225	−0.014	−0.033	−0.02	+0.26
−24 22 34.15	− 6.405	−0.344	+0.011	+0.003	−0.005	−0.71	−0.73
− 8 47 24.46	− 6.631	−0.394	+0.021	−0.012	0.000	−0.57	−0.50
−11 21 13.93	− 7.117	−0.383	+0.013	−0.001	−0.030	−0.52	−0.54
−22 4 47.93	− 7.655	−0.344	+0.059	−0.016	−0.037	−0.63	−0.37
− 3 53 15.41	− 7.860	−0.390	+0.025	−0.003	−0.005	−0.39	−0.57
+ 5 28 53.11	− 8.001	−0.424	−1.020	+0.024	+0.017	+0.05	+0.13
− 9 19 4.11	− 8.193	−0.379	−0.015	+0.012	+0.017	−0.57	−0.44
−14 19 14.16	− 8.581	−0.361	+0.018	−0.001	−0.020	−0.41	−0.33
−13 37 57.34	− 9.036	−0.359	−0.329	−0.010	−0.001	−0.37	−0.21
−22 36 47.19	− 9.457	−0.329	+0.023	−0.011	−0.011	−0.42	−0.50
− 3 24 24.94	− 9.625	−0.382	+0.013	+0.006	+0.046	−0.42	−0.38
−24 0 57.43	−10.274	−0.317	+0.054	−0.009	−0.006	−0.36	−0.46
−15 29 12.56	−10.681	−0.337	+0.006	−0.020	−0.017	−0.44	−0.19
−12 17 36.11	−11.042	−0.345	−0.983	+0.004	+0.039	−0.37	−0.14
− 3 34 48.22	−11.549	−0.355	−0.012	−0.003	+0.004	−0.36	−0.68
−19 14 22.16	−11.999	−0.313	+0.018	−0.011	−0.077	−0.40	−0.29
− 7 38 16.40	−12.248	−0.335	+0.028	−0.007	+0.007	−0.53	−0.61
−12 7 18.26	−12.571	−0.320	+0.013	−0.016	−0.017	−0.41	−0.30
− 1 31 49.62	−13.035	−0.335	+0.022	−0.005	+0.003	−0.17	−0.10
−18 23 29.34	−13.036	−0.301	−0.010	−0.011	−0.040	−0.56	−0.82
− 6 48 8.72	−13.330	−0.319	+0.018	−0.006	−0.004	−0.18	+0.09
−15 45 4.06	−13.805	−0.295	+0.238	−0.013	−0.048	−0.54	−0.42
− 8 11 6.15	−14.413	−0.293	+0.001	−0.012	−0.019	−0.30	−0.31

Nr.	Name	Gr.	Mittl. AR. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.
			h m s	s	s	s
121	P. IX. 13	6.4	9 7 23.896	+2.7519	+0.0015	−0.0055
*122	ϑ Hydrae	4.0	9 9 9.703	+3.1161	−0.0057	+0.0076
123	ϑ Pyx. naut.	5.3	9 17 3.913	+2.6559	+0.0034	−0.0030
*124	α Hydrae	2.0	9 22 40.388	+2.9502	−0.0014	−0.0022
125	τ^2 Hydrae	5.0	9 26 53.052	+3.0620	−0.0042	−0.0019
126	Lal. 18817	5.8	9 28 36.233	+2.7632	+0.0027	+0.0003
127	ϰ Hydrae	5.0	9 35 30.706	+2.8780	+0.0008	−0.0032
*128	6 Sextantis	6.1	9 46 11.681	+3.0241	−0.0026	−0.0002
129	Lal. 19433	5.8	9 50 9.197	+2.8321	+0.0030	−0.0034
130	12 Sextantis	6.3	9 54 31.867	+3.1197	−0.0058	−0.0060
131	υ^2 Hydrae	4.6	10 0 15.282	+2.9238	+0.0014	−0.0035
*132	λ Hydrae	4.0	10 5 42.756	+2.9385	+0.0014	−0.0148
133	22 Sextantis	5.8	10 12 39.630	+2.9925	−0.0002	−0.0120
134	25 Sextantis	6.1	10 18 23.213	+3.0370	−0.0017	−0.0051
*135	μ Hydrae	4.0	10 21 15.203	+2.9092	+0.0040	−0.0099
136	Br. 1462	6.4	10 25 58.371	+3.0061	+0.0001	−0.0041
137	44 Hydrae	5.8	10 29 15.465	+2.8514	+0.0072	−0.0014
138	φ Hydrae	5.0	10 33 42.535	+2.9285	+0.0046	−0.0092
*139	33 Sextantis	6.4	10 36 18.936	+3.0626	−0.0020	−0.0110
*140	ν Hydrae	3.3	10 44 41.390	+2.9517	+0.0052	+0.0051
141	41 Sextantis	5.0	10 45 17.016	+3.0097	+0.0017	−0.0023
142	b^2 Hydrae	5.0	10 48 35.911	+2.9268	+0.0070	+0.0040
143	p^2 Leonis	5.0	10 56 43.600	+3.0603	−0.0007	−0.0001
*144	β Crateris	4.1	11 6 44.305	+2.9466	+0.0098	−0.0017
145	φ Leonis	4.6	11 11 34.652	+3.0575	+0.0006	−0.0080
*146	δ Crateris	3.3	11 14 20.395	+3.0056	+0.0064	−0.0102
*147	γ Crateris	4.0	11 19 53.094	+3.0009	+0.0082	−0.0082
148	ϰ Crateris	6.0	11 22 7.231	+3.0267	+0.0055	−0.0083
149	e Leonis	5.0	11 25 12.297	+3.0641	+0.0010	−0.0001
150	ϑ Crateris	4.3	11 31 36.509	+3.0458	+0.0048	−0.0051
151	ζ Crateris	5.0	11 39 41.577	+3.0347	+0.0098	+0.0009
*152	β Virginis	3.3	11 45 29.142	+3.0762	−0.0003	+0.0480
153	η Crateris	6.0	11 50 55.076	+3.0569	+0.0099	−0.0052
154	Lal. 22585	5.9	11 55 36.464	+3.0683	+0.0066	+0.0060
155	M. 499	6.5	12 0 52.556	+3.0729	+0.0030	−0.0032
*156	ε Corvi	3.1	12 4 58.813	+3.0845	+0.0142	−0.0060
*157	γ Corvi	2.0	12 10 39.709	+3.0917	+0.0116	−0.0127
*158	η Virginis	3.3	12 14 47.335	+3.0729	+0.0027	−0.0055
159	P. XII. 54	5.9	12 15 45.849	+3.0939	+0.0094	−0.0015
160	M. 510	6.3	12 22 43.663	+3.0821	+0.0050	−0.0072

Mittl. Decl. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.	Correct. des vorläufigen Kataloges Δα 1885	Δα 1900	Δδ 1885	Δδ 1900
° ′ ″	″	″	″	s	s	″	″
—19 20 19.62	—14.629	—0.271	+0.063	—0.004	—0.039	—0.56	—0.43
+ 2 44 10.74	—14.734	—0.304	—0.297	+0.004	+0.001	—0.38	—0.22
—25 32 23.30	—15.194	—0.249	+0.002	—0.013	—0.036	—0.76	—1.45
— 8 13 30.25	—15.510	—0.268	+0.041	+0.012	+0.007	—0.48	—0.62
— 0 44 36.94	—15.741	—0.273	+0.002	+0.012	+0.006	—0.21	+0.02
—20 40 22.80	—15.834	—0.244	+0.031	+0.003	—0.019	—0.76	—0.88
—13 52 42.56	—16.197	—0.244	—0.002	+0.004	—0.018	—0.49	—0.71
— 3 46 28.45	—16.730	—0.238	—0.014	+0.004	—0.008	—0.38	—0.37
—18 32 8.07	—16.919	—0.218	—0.049	—0.010	—0.029	—0.78	—0.57
+ 3 51 46.53	—17.121	—0.233	+0.039	+0.009	+0.014	—0.40	—0.19
—12 34 46.59	—17.377	—0.208	+0.033	0.000	—0.001	—0.15	—0.22
—11 51 34.83	—17.610	—0.199	—0.072	—0.012	—0.011	—0.54	—0.65
— 7 34 9.64	—17.893	—0.191	+0.024	—0.014	—0.013	—0.19	+0.42
— 3 34 6.94	—18.113	—0.186	+0.008	—0.012	—0.015	—0.16	—0.10
—16 19 32.74	—18.219	—0.171	—0.073	—0.009	—0.012	—0.51	—0.70
— 7 7 27.91	—18.388	—0.171	+0.020	—0.006	+0.007	—0.03	+0.03
—23 13 47.28	—18.501	—0.156	+0.034	—0.006	+0.011	—0.46	—0.41
—16 21 26.47	—18.647	—0.152	+0.038	—0.002	+0.009	—0.63	—0.67
— 1 12 57.05	—18.730	—0.154	—0.112	+0.010	+0.026	—0.53	—0.64
—15 40 12.93	—18.979	—0.133	+0.213	+0.005	+0.008	—0.24	—0.27
— 8 22 4.14	—18.996	—0.136	+0.007	+0.006	—0.012	—0.20	+0.02
—19 36 0.98	—19.087	—0.125	—0.221	—0.022	—0.018	—0.72	—0.79
— 1 56 46.32	—19.293	—0.117	—0.023	+0.008	+0.003	—0.58	—0.78
—22 16 47.42	—19.513	—0.093	—0.090	—0.006	—0.006	—0.62	—0.64
— 3 6 17.66	—19.606	—0.089	—0.029	+0.001	+0.005	—0.43	—0.51
—14 14 14.45	—19.655	—0.081	+0.210	+0.002	+0.005	—0.43	—0.42
—17 8 5.02	—19.746	—0.070	+0.009	+0.005	+0.019	—0.26	—0.62
—11 48 25.79	—19.779	—0.068	+0.030	0.000	+0.012	—0.31	—0.36
— 2 27 5.98	—19.821	—0.063	+0.001	—0.004	+0.002	—0.63	—0.62
— 9 14 56.93	—19.898	—0.050	+0.017	+0.005	+0.016	—0.12	—0.02
—17 47 41.05	—19.973	—0.032	—0.020	+0.006	+0.005	—0.31	—0.48
+ 2 19 41.86	—20.012	—0.022	—0.260	+0.006	+0.006	—0.27	—0.25
—16 35 38.70	—20.036	—0.013	—0.002	+0.002	+0.015	—0.31	—0.58
— 9 52 34.03	—20.048	—0.005	—0.472	+0.006	+0.047	—0.46	—0.07
— 2 34 27.36	—20.052	+0.005	—0.005	+0.011	+0.016	—0.17	+0.11
—22 3 48.91	—20.047	+0.016	+0.020	—0.015	—0.017	—0.46	—0.46
—16 59 11.80	—20.030	+0.027	+0.033	+0.003	—0.002	—0.41	—0.40
— 0 6 39.76	—20.010	+0.035	—0.010	—0.002	—0.002	+0.01	+0.19
—13 0 39.32	—20.005	+0.034	+0.029	—0.006	—0.006	—0.33	—0.19
— 4 3 43.10	—19.953	+0.049	+0.005	—0.006	—0.025	—0.11	+0.43

Nr.	Name	Gr.	Mittl. AR. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.
			h m s	s	s	s
*161	δ Corvi	2.3	12 24 41.315	+3.1138	+0.0118	—0.0157
*162	β Corvi	2.4	12 29 7.930	+3.1441	+0.0164	—0.0019
163	χ Virginis	5.0	12 34 5.030	+3.0986	+0.0075	—0.0064
164	M. 522	6.5	12 42 23.272	+3.0975	+0.0070	—0.0014
165	ψ Virginis	5.0	12 49 9.063	+3.1178	+0.0091	—0.0033
*166	δ Virginis	3.0	12 50 33.926	+3.0526	+0.0026	—0.0328
167	Lal. 24277	6.1	12 58 24.694	+3.1957	+0.0161	+0.0095
*168	ϑ Virginis	4.3	13 4 46.258	+3.1054	+0.0078	—0.0038
169	53 Virginis	5.0	13 6 44.124	+3.1803	+0.0138	+0.0028
*170	γ Hydrae	3.3	13 13 29.003	+3.2485	+0.0187	+0.0037
*171	α Virginis	1	13 19 55.388	+3.1585	+0.0115	—0.0043
172	72 Virginis	6.6	13 25 12.615	+3.1234	+0.0091	+0.0012
173	73 Virginis	6.0	13 26 39.179	+3.2351	+0.0161	—0.0070
*174	ζ Virginis	3.3	13 29 35.784	+3.0735	+0.0064	—0.0207
175	*m* Virginis	6.0	13 36 21.721	+3.1513	+0.0106	—0.0080
*176	89 Virginis	5.0	13 44 26.180	+3.2597	+0.0164	—0.0082
177	*p* Virginis	5.6	13 49 33.960	+3.0836	+0.0075	—0.0073
178	47 Hydrae	5.8	13 52 54.366	+3.3606	+0.0212	—0.0048
*179	τ Virginis	4.0	13 56 33.365	+3.0497	+0.0064	—0.0002
180	40 H. Virginis	5.8	14 5 22.667	+3.2699	+0.0156	—0.0010
*181	κ Virginis	4.3	14 7 33.577	+3.1948	+0.0123	—0.0010
*182	ι Virginis	4.0	14 10 46.131	+3.1425	+0.0102	—0.0029
183	2 Librae	6.3	14 18 2.675	+3.2235	+0.0132	—0.0020
*184	φ Virginis	5.0	14 23 2.915	+3.0970	+0.0087	—0.0104
185	M. 575	6.8	14 29 12.975	+3.3676	+0.0182	+0.0010
*186	μ Virginis	4.0	14 37 47.310	+3.1504	+0.0104	+0.0052
*187	109 Virginis	3.6	14 41 11.520	+3.0378	+0.0074	—0.0089
*188	α Librae	2.3	14 45 20.666	+3.3197	+0.0155	—0.0091
189	15 Librae	6.0	14 51 20.415	+3.2495	+0.0130	—0.0013
190	δ Librae	5.6	14 55 37.660	+3.2050	+0.0116	—0.0065
*191	γ Scorpii	3.4	14 58 12.896	+3.5078	+0.0209	—0.0074
*192	ι Librae	4.6	15 6 31.139	+3.4152	+0.0171	—0.0048
*193	β Librae	2.0	15 11 37.449	+3.2301	+0.0118	—0.0079
194	8 Serpentis	6.4	15 18 34.315	+3.0846	+0.0085	+0.0032
195	32 Librae	6.2	15 22 36.897	+3.3764	+0.0148	—0.0006
196	37 Librae	5.0	15 28 42.657	+3.2536	+0.0118	+0.0186
197	41 Librae	5.8	15 33 9.051	+3.4412	+0.0157	+0.0047
198	η Librae	6.0	15 38 26.756	+3.3720	+0.0136	—0.0041
*199	μ Serpentis	3.3	15 44 23.991	+3.1333	+0.0088	—0.0077
*200	ε Serpentis	3.3	15 45 49.800	+2.9796	+0.0066	+0.0070

Mittl. Decl. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.	Correct. des vorläufigen Kataloges Δα 1885	Δα 1900	Δδ 1885	Δδ 1900
° ′ ″	″	″	″	s	s	″	″
—15 57 31.32	—19.936	+0.055	—0.130	0.000	—0.005	—0.39	—0.15
—22 50 37.49	—19.890	+0.064	—0.046	—0.006	—0.003	—0.53	—0.44
— 7 26 42.70	—19.831	+0.071	—0.017	—0.010	—0.002	—0.22	—0.17
— 5 45 16.10	—19.710	+0.087	—0.033	+0.018	+0.027	—0.36	—0.42
— 8 59 45.00	—19.593	+0.101	—0.006	—0.017	—0.015	—0.59	—0.42
+ 3 56 27.02	—19.566	+0.104	—0.050	+0.020	+0.031	—0.16	—0.19
—20 2 46.74	—19.404	+0.121	+0.034	+0.008	+0.023	—0.18	—0.08
— 5 0 18.57	—19.257	+0.132	—0.028	+0.001	+0.008	—0.27	—0.13
—15 39 33.25	—19.208	+0.137	—0.291	—0.019	—0.001	—0.42	—0.60
—22 38 38.69	—19.030	+0.155	—0.052	—0.009	+0.001	—0.60	—0.86
—10 38 21.80	—18.845	+0.163	—0.021	—0.020	—0.018	—0.25	—0.28
— 5 57 14.93	—18.682	+0.170	+0.024	—0.002	+0.003	—0.25	—0.20
—18 12 48.24	—18.636	+0.177	—0.006	+0.004	+0.035	—0.46	—0.45
— 0 5 4.80	—18.539	+0.176	+0.048	+0.011	+0.009	—0.49	—0.59
— 8 11 54.35	—18.306	+0.191	+0.047	—0.011	—0.003	—0.37	—0.36
—17 38 9.84	—18.006	+0.214	—0.030	+0.002	+0.009	—0.38	—0.10
— 1 0 39.77	—17.804	+0.210	—0.013	+0.005	—0.001	—0.48	—0.50
—24 29 3.02	—17.667	+0.233	—0.034	—0.008	—0.005	—0.42	—0.47
+ 2 1 42.15	—17.514	+0.222	—0.018	+0.002	+0.004	—0.50	—0.26
—15 49 46.94	—17.126	+0.251	—0.003	—0.005	—0.027	—0.73	—0.69
— 9 48 29.80	—17.025	+0.251	+0.150	+0.001	—0.010	—0.56	—0.44
— 5 31 24.30	—16.875	+0.252	—0.417	—0.007	—0.005	—0.11	—0.09
—11 15 26.46	—16.523	+0.270	—0.055	+0.002	+0.019	—0.37	—0.30
— 1 46 47.13	—16.271	+0.269	+0.002	+0.006	0.000	—0.41	—0.35
—20 0 2.37	—15.950	+0.299	+0.002	+0.005	—0.001	—0.82	—0.97
— 5 13 24.64	—15.484	+0.296	—0.313	—0.006	—0.012	—0.19	—0.29
+ 2 18 51.00	—15.293	+0.292	—0.030	—0.011	+0.011	—0.31	—0.37
—15 37 34.85	—15.056	+0.324	—0.066	+0.006	+0.008	—0.60	—0.51
—11 0 22.05	—14.705	+0.324	+0.013	+0.004	+0.013	—0.30	—0.19
— 8 7 19.66	—14.447	+0.326	+0.003	+0.003	+0.001	—0.12	+0.06
—24 53 20.86	—14.289	+0.362	—0.051	+0.003	—0.003	—0.47	—0.76
—19 24 48.06	—13.770	+0.365	—0.035	+0.012	—0.005	—0.26	—0.15
— 9 0 50.51	—13.442	+0.353	—0.016	+0.001	+0.002	—0.34	—0.32
— 0 39 57.00	—12.985	+0.347	—0.025	—0.011	—0.029	—0.30	—0.38
—16 22 4.49	—12.713	+0.382	—0.034	+0.006	+0.012	—0.24	—0.06
— 9 43 18.70	—12.296	+0.379	—0.236	+0.015	+0.027	—0.20	—0.21
—18 58 21.59	—11.987	+0.405	—0.076	—0.008	—0.023	—0.34	—0.31
—15 21 15.29	—11.613	+0.402	—0.064	—0.002	+0.005	—0.35	—0.37
— 3 7 27.47	—11.184	+0.382	—0.020	+0.005	+0.005	—0.37	—0.49
+ 4 46 43.05	—11.080	+0.366	+0.073	+0.002	+0.006	—0.08	+0.12

Nr.	Name	Gr.	Mittl. AR. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.
			h m s	s	s	s
201	48 Librae	5.0	15 52 35.249	+3.3556	+0.0124	—0.0026
*202	δ Scorpii	2.3	15 54 25.099	+3.5416	+0.0159	—0.0025
*203	β Scorpii pr.	2.0	15 59 37.227	+3.4830	+0.0142	—0.0023
204	11 Scorpii	6.0	16 2 3.107	+3.3302	+0.0113	—0.0049
*205	δ Ophiuchi	3.0	16 9 6.223	+3.1438	+0.0081	—0.0045
*206	ε Ophiuchi	3.3	16 13 1.710	+3.1656	+0.0082	+0.0036
207	ψ Ophiuchi	5.0	16 18 14.994	+3.5074	+0.0129	—0.0032
*208	α Scorpii	1.3	16 23 16.440	+3.6731	+0.0150	—0.0024
209	φ Ophiuchi	5.0	16 25 24.803	+3.4330	+0.0111	—0.0055
210	12 Ophiuchi	5.8	16 31 6.192	+3.1183	+0.0072	+0.0282
*211	ζ Ophiuchi	2.6	16 31 39.049	+3.2993	+0.0088	—0.0009
212	24 Scorpii	5.0	16 35 47.260	+3.4672	+0.0106	—0.0036
213	14 Ophiuchi	6.0	16 36 38.554	+3.0428	+0.0060	—0.0090
214	20 Ophiuchi	5.0	16 44 18.007	+3.3095	+0.0081	+0.0043
215	24 Ophiuchi	6.1	16 50 46.066	+3.6142	+0.0108	—0.0024
216	30 Ophiuchi	5.0	16 55 47.134	+3.1642	+0.0062	—0.0050
*217	η Ophiuchi	2.3	17 4 38.495	+3.4352	+0.0074	+0.0005
218	41 Ophiuchi	5.0	17 11 28.584	+3.0803	+0.0048	—0.0032
219	ξ Ophiuchi	5.0	17 15 0.567	+3.5762	+0.0076	+0.0151
220	27 H. Ophiuchi	4.5	17 21 19.461	+3.1880	+0.0046	—0.0077
221	51 Ophiuchi	5.1	17 25 18.787	+3.6579	+0.0067	—0.0020
*222	ξ Serpentis	3.6	17 31 51.573	+3.4366	+0.0047	—0.0048
223	μ Ophiuchi	4.6	17 32 24.508	+3.2606	+0.0041	—0.0018
224	ο Serpentis	4.6	17 35 47.601	+3.3753	+0.0042	—0.0068
*225	β Ophiuchi	3.0	17 38 31.900	+2.9654	+0.0030	—0.0040
*226	γ Ophiuchi	3.6	17 42 52.665	+3.0088	+0.0029	—0.0029
227	M. 703	6.2	17 50 2.024	+3.5270	+0.0032	—0.0007
*228	ν Ophiuchi	3.6	17 53 31.223	+3.3026	+0.0025	—0.0024
*229	67 Ophiuchi	4.0	17 55 38.152	+3.0042	+0.0022	—0.0018
*230	μ Sagittarii	4.1	18 7 46.942	+3.5878	+0.0009	—0.0019
*231	η Serpentis	3.0	18 16 8.075	+3.1408	+0.0009	—0.0393
232	2 H. Scuti	4.6	18 23 29.855	+3.4198	—0.0003	—0.0013
233	Br. 2329	5.8	18 29 28.884	+3.3318	—0.0005	+0.0007
234	Br. 2333	6.1	18 32 25.756	+3.6506	—0.0023	—0.0028
235	5 H. Scuti	5.0	18 38 4.467	+3.2668	—0.0009	—0.0002
236	6 H. Scuti	4.6	18 41 52.088	+3.1844	—0.0008	—0.0020
237	30 Sagittarii	6.3	18 44 49.796	+3.6099	—0.0036	—0.0048
*238	ϑ Serpentis pr.	4.2	18 51 14.859	+2.9799	—0.0004	+0.0014
239	P.XVIII.260	6.6	18 55 50.633	+3.4306	—0.0035	—0.0021
*240	λ Aquilae	3.1	19 0 56.496	+3.1863	—0.0021	—0.0031

Mittl. Decl. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.	Correct. des vorläufigen Kataloges Δα 1885	Δα 1900	Δδ 1885	Δδ 1900
° ′ ″	″	″	″	s	s	″	″
−13 59 27.14	−10.582	+0.417	−0.008	−0.009	−0.006	−0.40	−0.31
−22 20 14.17	−10.446	+0.443	−0.030	−0.017	−0.029	−0.67	−0.71
−19 31 54.75	−10.055	+0.442	−0.018	+0.011	+0.017	−0.23	−0.11
−12 28 35.51	− 9.870	+0.424	−0.025	+0.012	+0.013	−0.25	−0.13
− 3 26 13.12	− 9.328	+0.408	−0.140	+0.003	+0.007	−0.50	−0.57
− 4 26 55.95	− 9.023	+0.415	+0.041	−0.002	−0.006	−0.38	−0.28
−19 48 12.56	− 8.613	+0.462	−0.049	+0.007	+0.001	−0.49	−0.29
−26 12 36.81	− 8.214	+0.490	−0.022	−0.011	−0.014	−0.41	−0.31
−16 23 41.22	− 8.043	+0.459	−0.028	−0.006	−0.012	−0.48	−0.49
− 2 6 40.59	− 7.584	+0.426	−0.313	−0.001	+0.040	−0.27	−0.34
−10 21 52.68	− 7.540	+0.448	+0.033	+0.006	+0.003	−0.38	−0.42
−17 32 55.49	− 7.203	+0.471	+0.002	+0.001	−0.013	−0.37	−0.60
+ 1 22 19.33	− 7.133	+0.415	+0.059	−0.005	+0.004	−0.08	+0.15
−10 36 22.48	− 6.504	+0.459	−0.092	+0.005	+0.001	−0.27	−0.52
−22 59 29.54	− 5.966	+0.503	−0.002	−0.009	−0.031	−0.41	−0.18
− 4 4 21.89	− 5.545	+0.444	−0.077	−0.006	−0.005	−0.39	−0.48
−15 36 4.14	− 4.796	+0.488	+0.100	+0.010	+0.013	−0.71	−0.67
− 0 19 56.61	− 4.214	+0.439	−0.046	+0.005	+0.018	−0.29	−0.02
−21 0 20.12	− 3.911	+0.514	−0.197	+0.023	+0.002	−0.36	−0.30
− 4 59 53.72	− 3.368	+0.457	−0.038	−0.005	−0.013	−0.31	−0.20
−23 53 7.49	− 3.023	+0.527	−0.027	−0.004	+0.001	−0.30	−0.52
−15 20 8.49	− 2.456	+0.498	−0.058	+0.005	+0.008	−0.45	−0.61
− 8 3 28.23	− 2.408	+0.472	−0.009	0.000	+0.019	−0.38	−0.42
−12 49 18.66	− 2.114	+0.489	−0.044	+0.008	0.000	−0.71	−0.82
+ 4 36 32.22	− 1.876	+0.431	+0.163	−0.003	−0.003	−0.19	−0.22
+ 2 44 41.22	− 1.497	+0.438	−0.070	0.000	+0.013	−0.50	−0.70
−18 47 4.09	− 0.872	+0.513	−0.003	−0.009	−0.007	−0.11	+0.05
− 9 45 40.90	− 0.567	+0.482	−0.112	+0.004	−0.004	−0.46	−0.56
+ 2 56 10.64	− 0.382	+0.438	−0.006	+0.005	−0.017	−0.36	−0.37
−21 5 6.27	+ 0.681	+0.523	+0.005	−0.003	−0.010	−0.47	−0.42
− 2 55 29.51	+ 1.410	+0.456	−0.686	−0.001	+0.008	−0.47	−0.59
−14 37 46.41	+ 2.052	+0.496	+0.013	−0.007	−0.029	−0.51	−0.35
−11 3 18.65	+ 2.572	+0.482	+0.008	+0.008	−0.005	−0.45	−0.28
−23 35 24.95	+ 2.828	+0.527	−0.019	−0.016	−0.022	−0.19	−0.33
− 8 22 26.52	+ 3.316	+0.470	+0.025	+0.004	+0.008	−0.67	−0.81
− 4 51 17.48	+ 3.643	+0.456	−0.007	−0.005	+0.001	−0.53	−0.38
−22 16 35.61	+ 3.897	+0.516	−0.012	+0.002	+0.021	−0.60	−0.36
+ 4 4 24.06	+ 4.447	+0.422	+0.037	+0.010	+0.020	−0.56	−0.63
−15 25 25.39	+ 4.838	+0.486	+0.010	−0.011	−0.041	−0.73	−0.60
− 5 1 57.28	+ 5.269	+0.447	−0.080	−0.008	+0.002	−0.52	−0.53

Nr.	Name	Gr.	Mittl. AR. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.
			h m s	s	s	s
*241	π Sagittarii	3.1	19 3 49.002	+3.5708	−0.0058	−0.0020
242	20 Aquilae	5.8	19 7 15.239	+3.2550	−0.0031	−0.0006
243	d Sagittarii	5.0	19 11 47.049	+3.5139	−0.0059	−0.0025
244	υ Sagittarii	4.6	19 16 0.012	+3.4386	−0.0055	−0.0016
*245	δ Aquilae	3.3	19 20 27.354	+3.0088	−0.0017	+0.0153
246	e Aquilae	5.3	19 25 26.018	+3.1379	−0.0030	−0.0008
*247	h Sagittarii	4.6	19 30 37.327	+3.6507	−0.0102	+0.0030
248	κ Aquilae	5.0	19 31 30.700	+3.2294	−0.0043	−0.0012
249	f Sagittarii	5.1	19 40 31.739	+3.5132	−0.0090	−0.0115
250	51 Aquilae	5.8	19 45 16.675	+3.3060	−0.0062	−0.0037
*251	η Aquilae	var.[1]	19 47 22.727	+3.0571	−0.0031	−0.0005
252	63 Sagittarii	6.0	19 56 22.495	+3.3621	−0.0079	+0.0007
253	M. 811	6.5	19 57 48.759	+3.5639	−0.0119	−0.0050
254	Lal. 38458	6.7	20 2 46.335	+3.2149	−0.0059	−0.0013
*255	ϑ Aquilae	3.0	20 6 8.691	+3.0950	−0.0042	+0.0004
256	4 Capricorni	6.1	20 12 8.918	+3.5282	−0.0126	+0.0001
*257	α² Capricorni	3.3	20 12 30.394	+3.3282	−0.0084	+0.0026
*258	β Capricorni	3.0	20 15 23.580	+3.3722	−0.0096	+0.0007
*259	ρ Capricorni	5.1	20 23 9.429	+3.4281	−0.0114	−0.0028
260	M. 842	6.0	20 26 55.423	+3.2654	−0.0081	+0.0184
261	70 Aquilae	5.0	20 31 31.172	+3.1261	−0.0053	−0.0016
*262	υ Capricorni	5.6	20 34 21.461	+3.4221	−0.0122	−0.0033
*263	ε Aquarii	3.6	20 42 15.757	+3.2493	−0.0084	−0.0004
264	19 Capricorni	6.0	20 49 8.848	+3.3998	−0.0127	−0.0051
265	11 Aquarii	6.0	20 55 17.900	+3.1591	−0.0066	+0.0019
*266	ν Aquarii	4.3	21 4 8.844	+3.2662	−0.0098	+0.0049
*267	α Equulei	4.0	21 10 49.494	+2.9966	−0.0028	+0.0026
268	16 Aquarii	6.0	21 15 49.724	+3.1493	−0.0067	−0.0038
*269	ζ Capricorni	4.0	21 20 57.515	+3.4329	−0.0166	−0.0017
*270	β Aquarii	3.0	21 26 17.671	+3.1602	−0.0071	−0.0005
271	ε Capricorni	4.7	21 31 28.915	+3.3651	−0.0148	−0.0010
*272	γ Capricorni	3.6	21 34 33.067	+3.3168	−0.0131	+0.0115
*273	λ Capricorni	5.3	21 41 9.176	+3.2321	−0.0100	+0.0006
274	P. XXI. 320	6.0	21 48 56.992	+3.1328	−0.0063	+0.0011
275	M. 909	6.6	21 53 9.193	+3.3518	−0.0162	−0.0002
276	M. 911	6.6	21 56 41.616	+3.3004	−0.0139	+0.0054
*277	α Aquarii	3.0	22 0 38.855	+3.0821	−0.0042	−0.0005
*278	ι Aquarii	4.0	22 1 2.207	+3.2424	−0.0112	+0.0007
*279	ϑ Pegasi	3.3	22 5 9.310	+3.0086	−0.0011	+0.0173
*280	ϑ Aquarii	4.3	22 11 33.416	+3.1614	−0.0076	+0.0059

[1]) Gröfse zwischen 3.5 u. 4.7.

Mittl. Decl. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.	Correct. des vorläufigen Kataloges Δα 1885	Δα 1900	Δδ 1885	Δδ 1900
° ′ ″	s	″	s	s	s	″	″
—21 10 57.67	+ 5.512	+0.499	—0.028	+0.003	+0.005	—0.52	—0.43
— 8 6 24.25	+ 5.800	+0.453	—0.005	—0.004	+0.013	—0.36	—0.54
—19 7 51.39	+ 6.179	+0.487	—0.003	+0.013	+0.011	—0.43	—0.42
—16 8 33.85	+ 6.528	+0.474	+0.004	—0.005	—0.009	—0.43	—0.24
+ 2 54 55.01	+ 6.896	+0.410	+0.087	+0.002	0.000	—0.44	—0.51
— 2 59 50.43	+ 7.303	+0.426	—0.001	+0.003	+0.013	—0.41	—0.48
—25 6 15.70	+ 7.724	+0.489	—0.013	—0.001	+0.020	—0.29	—0.32
— 7 14 59.53	+ 7.796	+0.432	+0.007	+0.005	+0.001	—0.29	—0.29
—20 0 5.84	+ 8.516	+0.462	—0.078	—0.013	—0.014	—0.67	—0.66
—11 1 2.36	+ 8.891	+0.430	+0.042	—0.002	—0.001	—0.44	—0.66
+ 0 44 55.80	+ 9.055	+0.395	—0.005	—0.002	+0.016	—0.10	—0.12
—13 54 51.19	+ 9.750	+0.427	+0.028	+0.016	+0.023	—0.36	—0.32
—22 52 34.59	+ 9.860	+0.452	+0.041	+0.006	+0.011	—0.74	—0.58
— 7 3 1.95	+10.235	+0.401	+0.006	—0.001	+0.024	—0.40	—0.40
— 1 7 5.56	+10.488	+0.382	+0.010	+0.001	+0.009	—0.05	—0.10
—22 7 8.21	+10.932	+0.431	—0.028	—0.013	—0.009	—0.50	—0.51
—12 51 17.67	+10.958	+0.404	+0.013	+0.010	+0.016	—0.42	—0.49
—15 5 50.06	+11.169	+0.406	+0.013	+0.029	+0.027	—0.49	—0.64
—18 8 39.40	+11.727	+0.403	—0.008	+0.031	+0.029	—0.31	—0.32
—10 11 40.58	+11.992	+0.383	+0.108	+0.020	—0.003	—0.45	—0.25
— 2 53 47.15	+12.312	+0.357	—0.001	+0.005	—0.014	—0.35	—0.41
—18 29 27.21	+12.507	+0.387	—0.015	—0.017	—0.015	—0.75	—1.17
— 9 51 43.02	+13.040	+0.356	—0.026	—0.002	—0.002	—0.28	—0.28
—18 18 8.06	+13.492	+0.364	—0.006	—0.003	+0.007	—0.48	—0.53
— 5 7 0.15	+13.885	+0.330	—0.139	+0.014	+0.011	—0.47	—0.46
—11 46 35.97	+14.433	+0.327	—0.004	—0.003	+0.005	—0.39	—0.35
+ 4 50 3.38	+14.833	+0.290	—0.082	+0.009	+0.017	—0.43	—0.48
— 4 59 4.59	+15.124	+0.298	+0.016	+0.004	—0.007	—0.37	—0.18
—22 50 40.54	+15.415	+0.316	+0.026	—0.007	—0.011	—0.69	—0.40
— 6 0 40.17	+15.709	+0.282	+0.001	—0.003	—0.001	—0.31	—0.28
—19 54 51.35	+15.987	+0.294	+0.001	+0.008	+0.006	—0.57	—0.52
—17 6 50.57	+16.148	+0.283	—0.014	+0.014	+0.008	—0.35	—0.37
—11 49 37.96	+16.483	+0.264	—0.003	+0.012	+0.008	—0.47	—0.31
— 4 44 42.61	+16.862	+0.244	—0.080	—0.010	—0.002	—0.41	—0.18
—21 39 36.73	+17.058	+0.255	+0.004	—0.010	—0.024	—0.62	—0.63
—18 23 0.93	+17.219	+0.245	—0.069	—0.002	+0.002	—0.53	—0.40
— 0 48 20.67	+17.394	+0.218	—0.003	—0.002	+0.001	—0.61	—0.67
—14 21 17.65	+17.411	+0.230	—0.053	+0.007	+0.017	—0.45	—0.52
+ 5 42 20.71	+17.587	+0.209	+0.033	+0.010	+0.002	—0.54	—0.60
— 8 16 52.68	+17.849	+0.205	—0.018	+0.010	+0.012	—0.36	—0.36

Nr.	Name	Gr.	Mittl. AR. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.
			h m s	s	s	s
281	47 Aquarii	5.7	22 16 5.308	+3.3105	−0.0161	−0.0035
*282	γ Aquarii	3.4	22 16 29.456	+3.0920	−0.0042	+0.0068
283	50 Aquarii	6.2	22 19 5.686	+3.2152	−0.0107	+0.0017
284	σ Aquarii	4.8	22 25 21.322	+3.1789	−0.0089	−0.0017
285	υ Aquarii	5.5	22 29 13.471	+3.2730	−0.0152	+0.0140
*286	η Aquarii	3.8	22 30 13.056	+3.0784	−0.0031	+0.0045
287	g Aquarii	5.3	22 38 12.393	+3.2368	−0.0135	−0.0040
*288	τ Aquarii	4.0	22 44 17.857	+3.1818	−0.0099	−0.0026
*289	λ Aquarii	4.0	22 47 23.844	+3.1321	−0.0063	−0.0012
290	Br. 3033	6.7	22 52 6.601	+3.1092	−0.0047	−0.0025
291	h Aquarii	5.9	22 59 56.894	+3.1228	−0.0057	+0.0066
*292	c^2 Aquarii	3.9	23 4 6.905	+3.2013	−0.0139	+0.0018
*293	γ Piscium	4.0	23 11 58.838	+3.0594	+0.0005	+0.0488
294	b^1 Aquarii	4.3	23 17 43.166	+3.1651	−0.0125	−0.0098
*295	κ Piscium	5.0	23 21 48.344	+3.0700	0.0000	+0.0042
296	b^3 Aquarii	4.6	23 28 2.672	+3.1458	−0.0124	−0.0019
297	M. 974	6.5	23 30 22.553	+3.0970	−0.0043	−0.0020
*298	ι Piscium	4.3	23 34 48.360	+3.0597	+0.0030	+0.0235
*299	ω^2 Aquarii	4.6	23 37 32.194	+3.1080	−0.0078	+0.0047
300	M. 986	6.1	23 45 5.084	+3.0889	−0.0049	+0.0068
301	i^2 Aquarii	5.0	23 46 11.485	+3.1012	−0.0099	−0.0002
302	27 Piscium	5.3	23 53 33.183	+3.0754	−0.0009	−0.0051
303	2 Ceti	4.3	23 58 37.014	+3.0753	−0.0082	−0.0005

Mittl. Decl. 1900.0	Praecess. 1900.0	Variatio saecul.	Eig. Bew.	Correct. des vorläufigen Kataloges Δα 1885	Δα 1900	Δδ 1885	Δδ 1900
° ′ ″	″	″	″	s	s	″	″
−22 5 58.06	+18.026	+0.209	−0.082	−0.013	−0.015	−0.52	−0.71
− 1 53 28.88	+18.041	+0.191	+0.009	−0.004	−0.005	−0.25	−0.38
−14 2 10.88	+18.140	+0.197	+0.017	−0.001	+0.001	−0.29	−0.25
−11 11 23.18	+18.366	+0.183	−0.021	−0.004	−0.012	−0.43	−0.20
−21 13 13.92	+18.500	+0.183	−0.141	−0.017	−0.016	−0.55	−0.39
− 0 37 58.87	+18.533	+0.166	−0.053	+0.005	+0.010	−0.38	−0.39
−19 21 13.55	+18.789	+0.161	−0.025	−0.007	−0.024	−0.78	−0.46
−14 7 13.61	+18.968	+0.145	−0.028	+0.016	+0.020	−0.55	−0.38
− 8 6 42.36	+19.054	+0.137	+0.040	+0.009	+0.014	−0.38	−0.36
− 5 20 40.09	+19.179	+0.128	+0.014	+0.002	+0.031	−0.50	−0.36
− 8 14 0.60	+19.368	+0.113	+0.022	+0.005	−0.003	−0.29	−0.29
−21 42 55.09	+19.459	+0.107	+0.033	0.000	+0.007	−0.63	−0.95
+ 2 44 8.92	+19.613	+0.087	+0.019	+0.018	+0.021	−0.32	−0.28
−20 38 47.27	+19.712	+0.081	−0.085	+0.002	−0.016	−0.23	−0.16
+ 0 42 29.27	+19.774	+0.068	−0.089	−0.010	−0.008	−0.34	−0.15
−21 28 1.85	+19.857	+0.060	+0.022	−0.005	+0.017	−0.06	+0.06
− 8 1 4.49	+19.885	+0.055	+0.028	−0.008	−0.006	−0.31	−0.23
+ 5 5 3.22	+19.931	+0.043	−0.437	+0.009	+0.011	−0.19	−0.09
−15 5 52.21	+19.956	+0.038	−0.060	−0.005	−0.014	−0.33	−0.41
−10 31 56.58	+20.010	+0.026	+0.093	−0.007	−0.029	−0.25	−0.21
−19 27 54.91	+20.016	+0.022	+0.011	+0.005	+0.011	−0.53	−0.39
− 4 6 38.75	+20.044	+0.008	−0.063	+0.011	+0.009	−0.24	−0.33
−17 53 33.77	+20.052	0.000	−0.007	−0.005	−0.011	−0.10	−0.28

A. W. Schade's Buchdruckerei in Berlin S., Stallschreiberstr. 45/46.